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An anti-TNF chimeric antibody may be administered for treating TNF-alpha mediated Crohn's disease in a human. The anti-TNF chimeric antibody competitively inhibits binding of TNF to monoclonal antibody CA2. The anti-TNF antibody does not bind to one or more epitopes in amino acids 11-13, 37-42, 49-57 or 155-157 of hTNF, but does bind to one or more epitopes included in amino acids between 87-108 or both 87-108 and 59-80 of hTNF. (Updated on 25-MAR-2003 to correct PF field.)
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| DE Humani | sed | cA2 light | t chain | | variable reg | egion. | | |
| KW TNF; | tumour | necros | is fac | tor; | Crohn's di | sease; cA2 | antibody. | |
| OS Synthet | etic. | | | | | | , | |
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| AA PI Dadonna | ma P, | Le J, | Ghrayeb | D de | , Knight | D, Siegel S | SA, Vilcek J, | |
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| Tre | atment c | of Crohn' or tumour | 's disease r necrosis | ease osis | - by facto | administering hu r. | humanised cA2 a | antibody |
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumour necrosis factor; human; hTNF; rheumatoid arthritis; malignancy; anti-TNF chimmeric anti-Dody; inhbitor; therapy; diagnosis; infection; chronic inflammatory disease; autoimmune disease; light chain; neurodegenerative disease; variable region.
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invention for alleviating symptoms or pathologies involving TNF, such as bacterial, viral or parasitic infections, chronic inflammatory diseases, autoimmune diseases, malignancies and/or neurodegenerative diseases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence represents the light chain variable region of monoclonal antibody cA2. The specification describes a method for treating tumour necrosis factor-alpha (TWF-alpha) mediated disease (not resulting from infection) using an anti-TNF chimeric antibody that inhibits the binding of TNF to monoclonal antibody cA2. The methods and
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TNF-alpha mediated disease; anti-TNF chimeric antibody;
monocolonal antibody cA2; autoimmune disease; inflammatory disease;
neurodegenerative disorder; cereballar cortical degeneration;
multiple system degeneration; multi-system disorder; Senile Dementia;
amyotrophic lateral sclerosis; spinal muscular atrophy;
Alzheimer's disease; Down's Syndrome; Diffuse Lewy body disease;
Mernicke-Korsakoff syndrome; chronic alcoholism;
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UNIV NEW YORK STATE.
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98US-00133119

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12-AUG-1998;
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                                                                                            Le J,
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AAE10849
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chimeric antibodies are useful for treating and/or diagnosing TNF-alpha mediated diseases such as immune and autoimmune pathologies e.g. rheumatoid arthritis and especially systemic lupus erythematosus (SIEB), thyroidosis, graft versus host disease, caleroderma, diabetes mellitus, and Graves' disease; inflammatory diseases (other than septic shock), neurodegenerative disporders, cerebellar cortical degenerations, miltiple systems degenerations (e.g. Mencel, Dejerine-Thomas, Shi-Drager, and Machado-Joseph), Refsum's disease, abetalipoprotemia, ataxia, telangiectasia, mitcohondrial multi-system disorder, amyotrophic lateral celerois, infantile and juvenile spinal muscular atrophy, Alzheimer's disease, Down's Syndrome in middle spinal muscular atrophy, Alzheimer's Cementia of Lewy body type, Wernicke-Korakoff syndrome, chronic alcoholism, Creutzfeldt-Jakob disease, sub-acute sclerolising panencephalitis, Hallerrorden-Spatz disease, dementia pugilistica, lumphomas, other TNF-secreting tumors or alcohol-induced
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human, tumour necrosis factor-alpha, TNF-alpha, chimeric antibody, immunoglobulin, inflammation, cancer; cachexia, sepsis; endotoxic shock; infection, chronic inflammatory disease, auto-immune disease, malignancy, neurodegenerative disease, crohn's disease; rheumatoid arthritis, A2; vascular endothelial growth factor; VEGF, VEGF-mediated disease.
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100.0%; Pred. No. 8.6e-38;
iive 0; Mismatches 0;
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92US-0085366.
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93US-00192093.
94US-00192102.
94US-00192103.
94US-00192103.
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Best Local Similarity 100.
Matches 107; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                  Sequence 107 AA;
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Homo sapiens.
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18-MAR-1992;
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02-FEB-1993
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11-DEC-1995
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The present sequence represents the light chain variable region of a chimeric human-murine A2 antibody (cA2) which binds to epitopes of human tumour necrosis factor (TNP) -alpha. Chimeric antibodies of the invention comprise at least part of a human immunoglobulin constant region and at least part of a non-human immunoglobulin variable region. The chimeric antibodies are useful in vivo diagnosis and therapy of TNF-alpha-mediated pathologies and conditions. They can also neutralize human TNF-alpha-mediated pathologies and conditions. This is useful as TNF is known to be involved in e.g. pro-inflammatory actions, wasting associated with cancer and other diseases (cachexia), gram-negative sepsis and endotoxic shock. Antibodies can be used to treat and/or diagnose bacterial, parasitic or viral infections, chronic inflammatory diseases (such as crohn's diseases of rheumatoid arthritis). As inhibition or antagonism of TNF also decreases the malignancies and neurodegenerative diseases (such as Crohn's diseases antibodies are also useful to treat "MGF" mediated diseases. (Updated on 1-SBP-2003 to standardise OS field)
                                                                                                                                                                                                                                                   New chimeric antibody binding an epitope specific for human tumor necrosis factor alpha useful in treatment and diagnosis of tumor necrosis factor alpha related conditions e.g. Crohn's disease.
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                                                                     Siegel
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                                                                     Knight D,
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100.0%; Pred. No. 8.6e-38;
iive 0; Mismatches 0;
                                                                     Ghrayeb J,
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(CENZ ) CENTOCOR INC.
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                                                                         Vilcek J,
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ABG70572 standard; protein; 107 AA
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                                                                                                                                                                                                                                                                                                                                                                                                      Le J,
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ID ABG7
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                                                                                                                                                                                                                                                                                             The invention relates to chimeric anti-tumour necrosis factor (TNF)
antibodies. These chimeric antibodies comprises two light chains and two
heavy chains, each of the chains comprises two light chains and two
immunoglobulin [13] constant region and at least part of a human
immunoglobulin (TS) constant region and at least part of a non-human go
variable region, where the antibodies are capable of binding an epitope
specific for human TNF-alpha. Anti-TNF antibodies or peptides may be used
in research, therapeutic and diagnostic methods, specifically for
conditions associated with the presence of a substance reactive with an
anti-TNF antibody. TNF-related pathologies include acute and chronic
immune and autoimmune disorders (e.g. systemic lupus erythematosus,
theuwatoid arthritis, infections (e.g. bacterial, viral, fungal or
parastic infections), inflammatory diseases (e.g. ulcerative colitis,
conditions arthritis, infections (e.g. bacterial, viral, fungal or
parastic infections), inflammatory diseases (e.g. ulcerative colitis,
chorae or sanile chorae, disorders of the basal gangla or cerebellar
disorders), malignant pathologies (e.g. leukaemia, lymphomas), or alcohol-
induced hepatitis. The anti-TNF peptide or antibodies may also be used
for immunoassays, which derect or quantitate TNF or anti-TNF antibodies.
The present sequence is mouse light chain variable region of chimeric A2
anti-TNF antibody
                                                                                                                                                                                                               Chimeric anti-tumor necrosis factor (TNF) antibodies useful for diagnosing or treating TNF-associated pathologies or conditions, e.g. chronic and acute immune, autoimmune disorders, and microbial infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; tumour necrosis factor; TNF; anti-TNF antibody; cA2; infection; sepsis; cachexia; acquired immunodeficiency syndrome; AIDS; septic shock; chronic inflammatory disease; disseminated intravascular coagulation; atherosclerosis; ulcerative colitis; chronic inflammatory bowel disease; autoimmune disease; rheumatorid arthitis; diabetes mellitus; graft versus host disease; Grave's disease; alcohol-induced hepatitis;
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100.0%; Pred. No. 8.6e-38;
iive 0; Mismatches 0;
                                                                                                                                          Knight
                                                                                                                                          Ghrayeb J,
                                                                                                NEW YORK MEDICAL CENT
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                        92US-00853606.
92US-00943852.
93US-00010406.
93US-00013413.
                                                                                                                                          Dadonna P,
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107; Conservative
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                                                                                                                                          Vilcek J,
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                         18-MAR-1992
                                          11-SEP-1992;
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Best Local S
                                                                                              (CENZ )
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The present sequence represents the cloned light chain variable region of antibody cA2, which is directed against tumour necrosis factor (TRNE). The specification describes anti-TNF antibodies, such as cA2. The anti-TNF antibody is useful for alleviating symptoms or pathologies involving TNF, acquired immunodeficiency syndrome (AIDS) and septic shock), cannot inflammatory diseases (disseminated intravascular coagulation, atherosclerosis, ulcerative colitis and chronic arthritis, diabetes mellitus, graft versus host disease (e.g. rheumatoid arthritis, diabetes mellitus, graft versus host disease and/or neurodegenerative disease), autoimancial and chronic diseases (e.g. rheumatoid arthritis, diabetes mellitus, graft versus host disease and Grave's disease), alcohol-induced heptitis, analiquancies and/or neurodegenerative diseases (e.g. multiple
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New nucleic acid molecule encoding heavy or light chain variable regions of anti-tumor necrosis factor antibody, useful for alleviating symptoms or pathologies involving tumor necrosis factor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Siegel S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 107;
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malignancy; neurodegenerative disease; multiple sclerosis; demyelinating disease; acute transverse myelitis; vascular endothelial growth factor-mediated disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 557; DB 4; Length 1
100.0%; Pred. No. 8.6e-38;
ive 0; Mismatches 0; Indels
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UYNY-) UNIV NEW YORK MEDICAL CENT.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92US-0083806.
92US-00943852.
93US-00013413.
94US-00192093.
94US-00192861.
94US-00192861.
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ses 107; Conservative
                                                                                                                 VEGF-mediated disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-588928/66.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; AAH78592
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-FEB-1994;
18-OCT-1994;
11-DEC-1995;
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9 9

Gaps

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Indels

Length 107;

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US2002106372-A1.
                                                                                                                           or its fragment
                                                                               29-JAN-1993;
02-FEB-1993;
04-FEB-1994;
                                                                                           18-OCT-1994;
11-DEC-1995;
12-AUG-1998;
                                               Homo sapiens
                                                                                       04-FEB-1994;
    28-NOV-2002
                                                                           18-MAR-1992
                                                               08-AUG-2002
                                                                              11-SEP-1992
                                                 Mus sp.
Synthetic.
Chimeric.
                                                                                                          Le J,
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disorder, acute transverse myelitisa, a disorder of the motor unit, a neurogenic muscular atrophy, anterior horn cell degeneration, amyotrophic lateral scelerosis, infantile spinal muscular atrophy, Juvenile spinal muscular atrophy, Alzheimer's disease, Down's Syndrome, a diffuse Lewy body disease, semile dementia of Lewy body type, Wernicke-Korsakoff syndrome, chronic alcoholism, Creutzfeldt-Jakob disease, subacute sclerosing panencephalitis, Hallertoxden-Spatz disease, or dementia puglilstica). The present sequence represents human-murine chimeric antihuman TNFalpha (hTNFalpha) chimeric A2 (CA2) light chain variable region. The cA2 monoclonal anti-TNF antibody consists of mouse (from female BALB/C mice) antihuman TNF 1921 antibody (designated A2), and the constant regions of human IgG1 kappa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumour necrosis factor; monoclonal antibody; chimeric antibody; antibody;
myelodysplastic syndrome; cytostatic; vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DILLTQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 RFSGSGSGTDFTLSINTVESEDIADYYCQOSHSWPFTFGSGTNLEVK 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFTFGSGTNLEVK 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Murine anti-TNF antibody light chain variable region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ghrayeb J, Knight D,
                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 557; DB 5;
100.0%; Pred. No. 8.6e-38;
tive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABP54870 standard; protein; 107 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   91US-00670827.
92US-00853606.
92US-0091385.
93US-00013413.
94US-00192103.
94US-00192103.
94US-00192103.
94US-00192103.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-00133119
2001US-00756398
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Matches 107; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-740091/80.
N-PSDB; ABV73814.
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                                                                                                                                                                                                                                                                                                                          Sequence 107 AA;
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02-FEB-1993;
04-FEB-1994;
04-FEB-1994;
04-FEB-1994;
18-OCT-1994;
11-DEC-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to anti-tumour necrosis factor (TNF)
antibodies, and anti-TNF peptides, which are specific for human tumour
necrosis factor-alpha (TNFDhal.) Methods of producing and using the anti-
TNF antibodies and anti-TNF peptides are also disclosed. The anti-TNF
antibodies, anti-TNF peptides and methods of the invention are useful for
treating human neurodegenerative diseases (e.g. multiple sclerosis,
acquired immunodeficiaency syndrome (AIDS) dementia complex, a
demyelinating disease, acute transverse myelitis, an extrapyramidal
disorder, a cerebellar disorder, a lesion of the corticospinal system, a
disorder of the basal ganglia, a hyperkinetic movement disorder,
tuntington's cholera, senile cholera, a drug-induced movement disorder,
phypokinetic movement disorder, parkinson's disease, progressive
supranuclear palsy, a structural lesion of the cerebellum, a
spinocerebellar cortical degeneration, spinal ataxia, Friedreich's ataxia, a
cerebellar cortical degeneration, spinal ataxia, Friedreich's ataxia, a
systemic disorder, Refsuu's disease, abetalipoprotaemia, ataxia
telangiectasia, a mitochondrial multi-system disorder, demyelinating core
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treating a neurodegenerative disease, especially multiple sclerosis, comprises administering an anti-tumor necrosis factor monoclonal antibody
                                                                                                                                                 Human; tumour necrosis factor-alpha; TNFalpha; anti-TNF antibody; anti-TNF peptide; neurodegenerative disease; multiple sclerosis; acquired immunodeficiency syndrome; AIDS; demyelinating disease; acute transverse myelitis; extrapyramidal disorder; lesion; cerebellar disorder; basal ganglia disorder; Huntington's cholera; movement disorder; senile cholera; Parkinson's disease; spinal ataxia; progressive supranuclear palsy; spinocerebellar degeneration; systemic disorder; neurogenic muscular atrophy; Down's Syndrome; amyotrophic lateral sclerosis; Alzheimer's disease; chronic alcoholism; cretaffeldt-Jakob disease; Hallervorden-Spatz disease; neuropetic; neuroprotective; antiparkinsonian; human invalpha; mutant; antihuman TNF IgG1 antibody; IgG1 kappa; mutein.
                                                                                                              Human-murine chimeric anti-hTNFalpha cA2 light chain variable region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Siegel S;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure, Fig 16A; 95pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           91US-00670827.
92US-00853606.
92US-00010406.
93US-00013413.
94US-00192102.
94US-00192861.
94US-00192861.
95US-00570674.
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                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-706216/76.
N-PSDB; ABS54256.
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Treating myelodysplastic syndrome in human, involves administering tun necrosis factor-inhibiting amount of an anti-INF antibody, monoclonal antibody cA2 or anti-INF chimeric antibody.

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Siegel

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The present sequence is the protein sequence of the light chain variable region (VI) of an anti-human tumour necrosis factor (TMP) monoclonal antibody (WAD) produced by mutrine hybridoma line A2. A claimed method of treating a myelodysplastic syndrome in a human comprises administering an anti-TMP chimeric antibody comprising the murine A2 VL and VH (see ABPS4871) regions and an IgG1 human constant region. The anti-TMP peptides and antibodies of the invention can be used in the treatment of TMF-related pathologies such as acute and chronic immune and autoimmune pathologies, inflemmatory diseases, neurodegenerative diseases, malignant pathologies, and alcohol-induced hepatitis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; tumour necrosis factor; TNF; chimeric; antibody; cA2; psoriasis;
                                                                                                                                                                                                                                                       DILLTQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS
                                                                                                                                                                                                                                                                             DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS
                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                     Length 107;
                                                                                                                                                                                                                                                                                                        RFSGSGSGTDFTLSINTVESEDIADYYCOOSHSWPFTFGSGTNLEVK 107
                                                                                                                                                                                                                                                                                                                               RFSGSGSGTDFTLSINTVESEDIADYXCQQSHSWPFTFGSGTNLEVK 107
                                                                                                                                                                                                                               0; Indels
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                                                                                                                                                                                                     100.0%; Score 557; DB 5; 100.0%; Pred. No. 8.6e-38;
                                                                                                                                                                                                                             0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                             AAB47941 standard; protein; 107 AA
          Claim 7; Page 56; 97pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             91US-00670827.
92US-00853606.
92US-00014065.
93US-00013413.
94US-00192093.
94US-00192661.
94US-00324799.
95US-0050674.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 (revised)
(first entry)
                                                                                                                                                                                                                 al Similarity 100.
107; Conservative
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N-PSDB; AAI72609.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunoglobulin; G1
                                                                                                                                                                           Sequence 107 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US200202720-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-AUG-2001;
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04-FEB-1994
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                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                             Matches
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                                                                                                           The sequences given in AAB47941-42 show the light and heavy chain neariable regions of the chimeric antibody. CA2. CA2 is an anti-tumour necrosis factor (TNF) antibody. Anti-human TNF chimeric antibodies, may be used for treating psoriaals in humans. Psoriaals may be treated by administering: (a) anti-TNF chimeric antibody (Ab) which competitively inhibits binding of TNF to monoclonal chimeric Ab CA2; or (b) anti-TNF chimeric Ab ca3; or (b) anti-TNF chimeric Ab ca3; or (b) anti-TNF chimeric Ab cantralizing activity to the CA2 as low as 125 ng/ml completely abolished the toxic activity of TNF. The ca2 exhibited greater TNF-inhibiting and/or meutralizing activity than did the parent murine A2 monoclonal antibody. (Updated on 29-AUG-2003 to standardise OS field)
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Treating psoriasis in humans comprises administering anti-tumor necrosion factor (TNF) chimeric antibody cA2, or anti-TNF chimeric antibody which competitively inhibits binding of TNF to the antibody cA2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 557; DB 5; 100.0%; Pred. No. 8.6e-38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
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                                                                              Claim 7; Fig 16A; 97pp; English
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920S-00853606.
920S-00010406.
930S-00013413.
940S-00192093.
940S-00192861.
940S-00192861.
940S-00192861.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 100.
nes 107; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 107 AA;
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11-DEC-1995;
12-AUG-1998;
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02-FEB-1993;
04-FEB-1994;
04-FEB-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-MAR-1991;
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11-SEP-1992;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; tumour necrosis factor; TNF; antibacterial; immunosuppressive; tumour necrosis factor inhibitor; bacterial infection; cA2; sepsis; endothelial damage; vascular damage; severe hypotension; disseminated intravascular caquilation; shock; inflammation; bacteraemia; chimeric A2 antibody; cA2; light chain varaible region.
                                                                                                                                              The invention relates to an isolated nucleic acid molecule that encodes a tumour necrosis factor-alpha (TNR-alpha) specific antibody. The nucleic acid molecule is useful in diagnosing and/or treating TNR-alpha-mediated pathologies and conditions, such as bacterial, viral or parasitic infections, chronic inflammatory diseases (e.g. rheumatoid arthritis, cronn's disease or ulcerative collish, Jautoimmune diseases (e.g. systemic lupus erythematosus, diabetes mellitus or Grave's disease), malignancies, vascular diseases and/or neurodegenerative diseases (e.g. Halzeimer's disease) and in research purposes. The present sequence represents the amino acid sequence of the mouse TNF-alpha antibody cA2 light chain variable region
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                                                                               New nucleic acid molecule for diagnosing or treating tumor necrosis factor alpha-mediated diseases, e.g. infections, chronic inflammatory diseases, autoimmune diseases, cancer or neurodegenerative diseases.
                                                                                                                                                                                                                                                                                                                                         Gaps
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                       Siegel S;
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                                                                                                                                                                                                                                                                                                               Length 107;
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                       Knight D,
                                                                                                                                                                                                                                                                                                                100.0%; Score 557; DB 6;
100.0%; Pred. No. 8.6e-38;
ive 0; Mismatches 0;
                       Ghrayeb J,
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                                                                                                                             Claim 4; Fig 16A; 100pp; English.
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92US-00953806.
92US-00010406.
93US-00013413.
94US-00192093.
94US-00192861.
94US-00192861.
                      Vilcek J, Daddona P,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                            Best Local Similarity 100.
Matches 107; Conservative
 (CENZ ) CENTOCOR INC.
                                             2003-401678/38.
                                                        N-PSDB; ACA61152
                                                                                                                                                                                                                                                                                           Sequence 107 AA;
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04-FEB-1994;
18-OCT-1994;
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04-FEB-1994
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                       Le J,
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Mouse, TNFalpha; humanised antibody; tumour necrosis factor-alpha;
antigen, constant region; heavy chain; light chain;
antigen binding region; complementarity determining region; CDR; A2;
W framework region; cytokine; TNF; pro-inflammatory; tissue injury;
proceedulant; vascular endothelial cell; neutrophil; lymphocyte;
W procedulant; vascular endothelial cell; neutrophil; lymphocyte;
W autoimmune disorder; rheumatoid arthritis; thyroidosis; diabetes;
W praft versus host disease; Grave's disease; infection; AIDS;
Inflammatory disease; sarcoidosis; chronic inflammatory bowel disease;
W neurodegenerative disease; multiple sclerosis; Parkinson's disease;
W neurodegenerative disease; cancer; hepatitis; coular neovascularisation;
W profinels; duodenal ulcer; anglogenesis; female reproductive tract;
W neuroprotective; nootropic; cytostatic; gynecological.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention describes a method of treating bacterial infection in a human comprising administering to the human a tumour necrosis factor (TMP) inhibiting amount of an anti-TMP chimeric antibody, which competitively inhibits binding of TMP to monoclonal antibody cA2 methods are useful for treating bacterial infections, a pathology disseminated intravascular coagulation or severe hypotension), shock resulting from bacterial infection, or inflammatory reaction resulting from bacterial and/or diagnostic compounds are useful for diagnosing an treating TMF-related pathologies. This is the amino acid sequence of the chimeric A2 (CA2) antibody light chain variable region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating bacterial infection in a human comprises administering to the human a tumor necrosis factor (TNF)-inhibiting amount of an anti-TNF chimeric antibody, which competitively inhibits binding of TNF to
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100.0%; Pred. No. 8.6e-38;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                         Ghrayeb J,
                                                                                                                                                                                                            (UYNY-) UNIV NEW YORK MEDICAL CENT. (CENZ ) CENTOCOR INC.
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11-DEC-1995; 95US-00570674.
12-AUG-1998; 98US-00133119.
12-AUG-2001; 2001US-00957703.
                                                                                                                                                                                                                                                                                                                                         Vilcek J, Daddona P,
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Best Local Similarity 100.
Matches 107; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              monoclonal antibody cA2
                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-174129/17.
N-PSDB; ABX14786.
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(first entry)

29-APR-2003

ABG75773;

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fragment, that selectively binds human tumour necrosis factor-alpha (Tragment, comprising an antigen binding region of non-human origin and at least a portion of an antigen binding region, comprising complementarity determining regions (CDRs) derived from an antibody of murine origin, that binds to human prigins and cerived from an antibody of murine origin, that binds to human Trapha (AZ or CAZ), and a framework region derived from a heavy or light chain of human origin. Black disclosed is an expression vector comprising a fused gene encoding the humanised antibody, or its antigen-binding fragment, and the method for preparing it. The cytokine TNF causes pro-
inflammatory actions which result in tissue injury, such as inducing procoagulant activity on vaccular endothelial cells, increasing the adherence of neutrophils and lymphocytes and stimulating the release of platelet activating factor from macrophages, neutrophils and vascular endothelial cells. The methods and summanised antibody, and antigen-binding fragment, and manufacturing a polypeptide. The methods and compositions are also useful for the diagnosis and treatment of TNF-related pathologies, such as acute and chronic immune and entoring and disease, cherothers including ALDS, inflammatory diseases (sarcoidosis, chronic inflammatory bowel disease, inflammatory diseases (milting configuration) and also active the diseases (milting configuration) and also active the disease (milting configuration) and disease (milting configuration).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and atherosclerosis), neurodegenerative diseases (multiple sclerosis, Parkinson's disease, dementia and Alzheimer's disease), cancer, hepatitis, ocular neovascularisation, psoriasis, duodenal ulcers and anglogenesis of the female reproductive tract. The sequence presented is the murine cA2 variable light chain of the TNFalpha antibody
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                                                                                                                                                                                                                                                                                                              Siegel
                                                                                                                                                                                                                                                                                                              Ghrayeb J, Knight D,
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                                                                                                                                                            08-JAN-2001; 2001US-00756161.
                                                                                                                                                                                                                                                                                                              Daddona P,
                                                                                                                                                                                                                  98US-00133119
                                                                                                                                                                                                                                                             (UYNY ) UNIV NEW YORK STATE
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hes 107; Conserv
                                                                                                                                                                                                                                                                                                              J, Vilcek J,
                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; ABX11349
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                                                                     US2002132307-A1.
                         Mus musculus.
                                                                                                                                                                                                                  12-AUG-1998;
                                                                                                                   19-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and cancer.
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Matches
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ABG75773 standard; protein; 107 AA.

RESULT 13
ABG75773
ID ABG757

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The invention discloses a method for treating ankylosis, by administering a tumour necrosis factor (TNF)-inhibiting anti-TNF chimeric antibody which competitively inhibites binding of TNF to the murine monoclonal antibody cA2, where the antibody comprises an immunoglobulin (Ig) Gl constant region and binds to an epitope of human TNF. The antibody constant region heavy or light chain of human origin and an antigen binding region, comprising complementarity determining regions consists of a constant region heavy or light chain of human origin and an antigen binding regions (CDRs) derived from an antibody of murine origin that binds to human criman antibody of murine origin that binds to human criman of human origin. The cytokine region derived from a heavy or light chain of human origin. The cytokine as inducing procoagulant actions which result in tissue injury, such as inducing procoagulant activity on vascular endothelial cells, increasing the adherence of neutrophils and lymphocytes and stimulating the release of platelet activating factor from macrophages, neutrophils and vascular endothelial cells. The methods and compositions are also useful for the diagnosis and creatment of ankylosis and TNF-related pathologies, such as acute and chronic immune and autoimmune discase, scleroderma, diabetes and Grave's thyroidosis, graft versus host disease, scleroderma, diabetes and Grave's
                                                                                                                                                                                     complementarity determining region; framework region; cytokine; pro-inflammatory; tissue injury; procoagulant; vascular endothelial cell; neutrophil; lymphocyte; platelet activating factor; macrophage; immune disorder; autoimmune disorder; rheumatoid arthritis; thyroidosis; graft versus host disease; scleroderma; diabetes; Grave's disease; infection; AIDS; inflammatory disease; sarcoidosis; crowe's disease; chronic inflammatory bowel disease; accoidosis; conficient conficient and preference of the sease; scherosis; neurodegenerative disease; multiple sclerosis; parkinson's disease; dementia Alzheimer's disease; cancer; hepatitis; ocular neovascularisation; psotiasis; duodenal ulcer; angiogenesis; female reproductive tract; haemodynamic; febrile; allergic episode.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Treating ankylosis in a human, comprises administering a tumor necrosis factor (TNF)-inhibiting amount of anti-TNF chimeric antibody.
                                                                                                                        Mouse; tumour necrosis factor alpha; TNFalpha; rheumatoid arthritis; TNF inhibitor; ankylosis; anti-TNF antibody; cA2; immunoglobulin G1; Ig G1; TNF, heavy chain; light chain; antigen binding; CDR; complementarity determining region; framework region; cytokine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Siegel S;
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                                                                                   cA2 variable light chain of the TNFalpha antibody.
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920S-00943852.
930S-00010406.
930S-00102093.
940S-00192081.
940S-00192861.
940S-00192861.
950S-00105-00576674.
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N-PSDB; ABX11365.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus.
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disease), bacterial and viral infections including AIDS, inflammatory diseases (sarcoidosis, chronic inflammatory bowel disease, ulcerative colitis, Crohn's disease and arberosclerosis), neurodegenerative diseases (multiple sclerosis, Parkinson's disease, dementia and Alzheimer's disease), cancer, hepatitis, ocular neovascularisation, psoriasis, duodenal ulcers and angiogenesis of the female reproductive tract. The chimeric anti-TNP Mab was well-tolerated and involved no haemodynamic, febrile or allergic episodes. The sequence presented is the murine cA2 variable light chain of the TNPalpha antibody
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                                                                                                                                                                           Ouery Match 100.0%; Score 557; DB 6; Best Local Similarity 100.0%; Pred. No. 8.6e-38; Matches 107; Conservative 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               94US-00192102.
94US-00192861.
94US-00324799.
95US-00570674.
98US-0013119.
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04-FEB-1994;
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The invention describes a method of treating cachexia in a human comprising administering a tumour necrosis factor (TNF) inhibiting amount of: (a) an anti-TNF chimeric antibody, which competitively inhibiting binding of TNF to menoclonal antibody (mAD) (AZ); (b) chimeric anti-TNF antibody (mAD) (AZ); (c) chimeric anti-TNF antibody cAZ; (c) at least one mAD cAZ, or its TNF-binding fragment; or (A) an anti-TNF chimeric antibody with epitopic specificity identical to mAD cAZ. Administering a TNF-inhibiting amount of an anti-TNF chimeric antibody which has epitopic specificity identical to mAD cAZ is useful cortreating cachexia in humans, particularly a cachexia associated with cancer, HIV or ALDS. This is the amino acid sequence of mouse cAZ light chain variable region used in the creation of TNF alpha-antibody fusion
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100.0%; Pred. No. 8.6e-38;
iive 0; Mismatches 0;
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92US-00943852.
93US-00010406.
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94US-00324799
95US-00570674.
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2001US-00756398.
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                                                                                                                                                                                                                                                                       Local Similarity 100.
nes 107; Conservative
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The invention relates to a human anti-tumour necrosis factor (TNF)
antibody or its antigen binding fragment that competitively inhibits
binding of antibodies A2 or CA2 to human TNF-alpha. The invention also
relates to a composition comprising the antibody or its antigen binding
fragment and a carrier, a human light or heavy chain that specifically
binds human TNF-alpha and competitively inhibits binding of A2 or CA2
complementarity determining regions of the light or heavy chain of the
complementarity determining regions of the light or heavy chain of A2 or
complementarity determining regions of the light or heavy chain of A2 or
complementarity determining segions of the light or heavy chain of A2 or
complementarity determining second transverse to CA2, and a human light or heavy chain if ranewook region and an isolated
nucleic acid that encodes the above human heavy or light chain. The
antibody is useful in in vivo diagnosis and therapy of TNF-alpha-mediated
currently parasitic), inflammatory diseases (e.g. sarcoidosis,
atherosclerosis), autoimmune diseases (e.g. rheumatoid arthritis,
systemic lugus erythematosus), neurodegenerative diseases (e.g.
Huntington's Chorea, Parkinson's diseases), malignancies (e.g. lymphomas,
carcinomas) and alcohol-induced hepatitis. This sequence represents the
complements and alcohol-induced hepatitis. This sequence represents the
                                                                                       New human anti-tumor necrosis factor (TNF) antibody or its antigen binding fragment that competitively inhibits binding of A2 or cA2 to human TNF-alpha, useful for diagnosing and treating TNF-alpha-mediated diseases, e.g. infection.
                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 3; 97pp; English.
WPI; 2003-744929/70.
N-PSDB; ADC46569.
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Sequence 107 AA;

1 DILLTQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS 60 1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRINGSPRLLIKYASESMSGIPS 60 0; Gaps Query Match
100.0%; Score 557; DB 7; Length 107;
Best Local Similarity 100.0%; Pred. No. 8.6e-38;
Matches 107; Conservative 0; Mismatches 0; Indels (61 RFSGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFTFGSGTNLEVK 107 61 RFSGSGSGTDFTLSINIVESEDIADYYCQQSHSWPFTFGSGTNLEVK 107 QQ à

Search completed: December 15, 2004, 17:16:37 Job time : 109.053 secs

Sequence 62, Appl Sequence 62, Appl Sequence 62, Appl Sequence 63, Appl Sequence 83, Appl Sequence 83, Appl Sequence 83, Appl Sequence 6, Appli Sequence 6, Appli Sequence 6, Appli Sequence 1, Appli

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GENERAL INFORMATION:
APPLICANT: Use, Jumming
APPLICANT: Vilcek, Jan
APPLICANT: Oaddona, Peter E.
APPLICANT: Ghrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Knight, David M.
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott A.
TITLE OF INVENTION: ANTI-TNF ANTIBODIES
NUMBER OF SEQUENCES: 19
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CONTEXT USA

COMPUTER REDABLE FORM:
MEDIUM TYPE: Floppatible
COMPUTER: IBM PC compatible
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/192,102
FILING DATE: 04-FEB-1994
CLASSIFICATION NUMBER: US 08/013,413
FILING DATE: 04-FEB-1994
FILING DATE: 02-FEB-1993
FRIOR APPLICATION NUMBER: US 08/010,406
FILING DATE: 19-50-JAN-1993
FRIOR APPLICATION NUMBER: US 07/943,852
FRIOR DATE: 11-SEP-1992
FRIOR APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
FRIOR APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
FRIOR APPLICATION NUMBER: US 07/943,852
FILING DATE: 18-MAR-1992
FRIOR APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1991
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FILING DATE: 18-MAR-1991
FROME APPLICATION NUMBER: US 07/670,827
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FROME APPLICATION NUMBER: US 07/670,827
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FILING DATE:
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Two Militia Drive
US-07-634-278-62
US-08-477-728-62
US-08-487-200-62
US-08-487-200-62
US-08-484-537-62
US-07-634-278-83
US-08-477-728-83
US-08-477-728-83
US-08-477-7218-62
US-08-484-557-83
US-08-485-246-6
US-08-485-246-6
US-08-485-246-6
US-08-477-352-1
US-09-247-352-4
US-09-247-352-4
US-09-247-352-4
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US-08-192-102-3
Sequence 3, Application US/08192102
Patent No. 5656272
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CITY: Lexington
STATE: Massachusetts
      CORRESPONDENCE ADDRESS: ADDRESS:
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                                                                                                                                                                                                           December 15, 2004, 17:10:19 ; Search time 27.4602 Seconds
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Sequence 3, A
Sequence 3, A
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557
1 DILLTQSPAILSVSPGERVS.......CQQSHSWPFTFGSGINLEVK 107
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Sequence 3,
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Sequence 1
Sequence 4
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(/cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
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//cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
//cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
//cgn2_6/ptodata/1/iaa/PcTUS_COMB.pep:*
                                        GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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US-08-324-799-3

US-08-132-191-3

US-09-133-119-3

US-09-133-119-3

US-08-123-0918-3

US-09-244-38-1

US-09-246-391-1

US-09-246-391-1

US-09-246-399-4

US-08-325-389-4

US-08-426-399-4

US-08-426-399-4

US-08-426-399-4

US-08-426-399-4

US-08-426-399-4

US-08-436-44-4

US-08-436-44-4

US-08-436-44-4

US-08-436-45-46-8

US-08-436-45-46-9

US-08-436-45-46-9

US-08-436-45-46-9

US-08-436-45-46-9

US-08-436-46-9

US-08-436-46-9
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                          - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 2000000000
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Perfect score:
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                                                                                                                                                                                                                                                                                                       100.0%; Score 557; DB 1; Length 107; 100.0%; Pred. No. 6.2e-46; ive 0; Mismatches 0; Indels C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Le, Junming
APPLICANT: Vilcek, Jan
APPLICANT: Daddona, Peter E.
APPLICANT: Baddona, Peter E.
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott A.
TITLE OF INVENTION: OF HUMAN TUMOR NECROSIS FACTOR
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: VALV.

COMPUTER: READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: TEN PC COMPUTER:
COMPUTER: PatentIn Release #1.0, Version #1.25
CURENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,799
FILING DATE: 18-OCT-1994
PRIOR APPLICATION NUMBER: 04-192,093
FILING DATE: 04-FEB-1994
PRIOR APPLICATION NUMBER: 06/192,102
FILING DATE: 04-FEB-1994
PRIOR APPLICATION NUMBER: US 08/192,861
FILING DATE: 04-FEB-1994
PRIOR APPLICATION NUMBER: US 08/191,413
FILING DATE: 29-JAN-1993
PRIOR APPLICATION NUMBER: US 08/010,406
FILING DATE: 29-JAN-1993
PRIOR APPLICATION NUMBER: US 08/010,406
FILING DATE: 29-JAN-1993
PRIOR APPLICATION NUMBER: US 08/010,406
FILING DATE: 11-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
REFERENCE/DOCKET NUMBER: NYU93-01M3
| TELECOMMUNICATION: | 1ELEPHONE: (617) 861-6240
| TELEPHONE: (617) 861-9540
| TELEPHONE: (617) 861-9540
| INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS: | LENGTH: 107 amino acids | TYPE: amino acid | TOPOLOGY: linear | MOLECULE TYPE: protein | US-08-192-102-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3, Application US/08324799
Patent No. 5698195
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Best Local Similarity 100.
Matches 107; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: Two Militia C
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Le, Junn
APPLICANT: vilcek,
APPLICANT: Daddona,
APPLICANT: Ghrayeb,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02173
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US-08-324-799-3
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Sequence 3. Application US/08192861A

Sequence 3. Application US/08192861A

Patent No. 5919452

GENERAL INFORMATION:

APPLICANT: Vilcek, Jan

APPLICANT: Vilcek, Jan

APPLICANT: Girayeb, John

APPLICANT: Girayeb, John

APPLICANT: Siggel, Scott A.

TITLE OF INVENTION: CHIMERIC ANTI-TIVE ANTIBODIES (As Amended)

TITLE OF INVENTION: CHIMERIC ANTI-TIVE ANTIBODIES (As Amended)

CORRESPONDENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Hamilton Brook, Smith & Reynolds, P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 DILLTQSPAILSVSPGERVSF8CRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS 60
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100.0%; Score 557; DB 1; Length 107;
Best Local Similarity 100.0%; Pred. No. 6.2e-46;
Matches 107; Conservative 0; Mismatches 0; Indels
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/192,861A
FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/013,413
FILING DATE: 02-FEB-1993
PRIOR APPLICATION NUMBER: US 08/010,406
FILING DATE: 22-JAN-1993
PRIOR APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FRING DATE: 11-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/953,606
                                                                                           FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: BEOCK, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: 01993-01M4
TELECOMMUNICATION INFORMATION:
TELEFAX: (617) 861-6240
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
                      FILING DATE: 18-WAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/670,827
US 07/853,606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                      TYPE: amino acids
TOPOLOGY: line
                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein US-08-324-799-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Lexington
STATE: Massachusetts
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MEDIUM TYPE: Floppy
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1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRINGSPRLLIKYASESMSGIPS 60
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Sequence 3, Application US/08192093A

Patent No. 6284471

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Ghraybe, John

APPLICANT: Ghraybe, John

APPLICANT: Knight, David M.

APPLICANT: Knight, David M.

APPLICANT: Siegel, Scott A.

TITLE OF INVENTION: ANTI-TNF' ANTIBODIES AND ASSAYS EMPLOYING

TITLE OF INVENTION: ANTI-TNF' ANTIBODIES

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Militia, Drive

COUNTRY: USA

CONTRY: USA

COMPTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPTER: IBM PC compatible

COMPTER: IBM PC compatibl
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100.0%; Score 557; DB 3;
Best Local Similarity 100.0%; Pred. No. 6.2e-46;
Matches 107; Conservative 0; Mismatches 0;
                 PRIOR APPLICATION CALLS
PRIOR APPLICATION NUMBER: 08/192,861
FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/013,413
FILING DATE: 02-FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/010,406
FILING DATE: 29-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,666
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1991
APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: BEOOK, DAVIG E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: NYU93-01M47
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
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TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION SECULUM SECULUM
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ER: NYU93-01M4A
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amino acid
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US-08-192-093A-3
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100.0%; Score 557; DB 2; Length 107;
Best Local Similarity 100.0%; Pred. No. 6.2e-46;
Matches 107; Conservative 0; Mismatches 0; Indels C
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GENERAL INFORMATION:

APPLICANT: Vilcek, Jan

APPLICANT: Daddona, Peter E.

APPLICANT: Grayeb, John

APPLICANT: Knight, David M.

APPLICANT: Knight, David M.

APPLICANT: Siegel, Scott A.

TITLE OF INVENTION: OF HUMAN TUMOR NECROSIS FACTOR

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS: 19

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C. STREET: Two Militia Drive CITY: Lexington STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/133,119 FILING DATE:
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
PELICATION DATA: 18 07/670,827
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: BEOOK, David E.
RGGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: NYU93-01M2
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: (781) 861-6240
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
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APPLICATION NUMBER: 08/570,674
FILING DATE: 11-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/324,799
FILING DATE: 18-OCT-1994
PRIOR APPLICATION NUMBER: 08/192,093
FILING DATE: 04-FEB-1994
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ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JMBER: 08/192,102
04-FEB-1994
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US-09-133-119-3
Sequence 3, Application US/09133119
Patent No. 6277969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER
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1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                              PRIOR FILING DATE: 1993-01-29
PRIOR PILING DATE: 1993-01-29
PRIOR APPLICATION NUMBER: U.S. 08/013,413
PRIOR PILING DATE: 1993-02-05
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-03-18
PROMADER: 1992-03-18
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PastSEQ for Windows Version 4.0
LENGTH: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 100.0%; Score 557; DB 4; Length 107; Best Local Similarity 100.0%; Pred. No. 6.2e-46; Matches 107; Conservative 0; Mismatches 0; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 RFSGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFTFGSGTNLEVK 107
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CITY: FALLS CHURCH
STATE: USA

COUNTRY: USA

CONPUTER: LOPPY disk

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

COMPUTER: PATEMIN PC-DOS/MS-DOS

SOFTWARE: PATEMIN Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/232,081B

FILING DATE:

CLASSIFICATION: 424
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   APPLICATION NUMBER: U.S. 08/010,406
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APPLICANT: GONT, HIDBYUKI
APPLICANT: WIJDENES, JOHN
APPLICANT: NOGUCHI, HIROSHI
TITLE OF INVENTION: HUMANIZED B-B10
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 40, Application US/08232081B Patent No. 5886152
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NAME: SVENSSON, LEONARD R
REGISTRATION NUMBER: 30,330
REFRENCE/DOCKET NUMBER: 20-3:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO: 40: SEQUENCE CHARACTERISTICS:
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MOLECULE TYPE: protein
US-08-232-081B-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
; ORGANISM: Mus Balb/c
US-09-756-301B-3
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US-08-232-081B-40
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APPLICANT: Le, Junming
APPLICANT: Vilcek, Jan
APPLICANT: Tilcek, Jan
APPLICANT: Might, Jan
APPLICANT: Might, David
APPLICANT: Kright, David
APPLICANT: Kright, David
APPLICANT: Kright, David
APPLICANT: Sigel, Scott
TITLE OF INVENTION: Human Tumor Necrosis Factor
TITLE OF INVENTION NUMBER: U.S. 09/133,119
PRIOR FILING DATE: 1998-08-12
PRIOR FILING DATE: 1994-10-18
PRIOR FILING DATE: 1994-10-04
PRIOR FILING DATE: 1994-02-04
                   FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 02-FEB-1993
FILING DATE: 02-FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 12.592
REFERENCE/DOCKET NUMBER: 22.592
REFERENCE/DOCKET NUMBER: 23.592
REFERENCE/DOCKET NUMBER: 23.593
REGULT REGULT NUMBER: 23.593
REGULT REGULT REGULT NUMBER: 23.593
REGULT REGUL
   US/08/192,093A
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Patent No. 6790444
APPLICATION NUMBER: US/08 FILING DATE: 04-FEB-1994
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amino acid
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Best Local Similarity 100.
Matches 107; Conservative
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/ MOLECULE TYPE: protein
US-08-192-093A-3
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US-09~756-301B-3
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1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRINGSPRLLIKYASESMSGIPS
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                                                                               1 DILLIQSPAILSVSPGERVSFSCRASOFVGSSIHWYQQRINGSPRLLIKYASESMSGIPS
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APPLICANT: SHIMAWURA, TOSHIRO
APPLICANT: TAKI, SHINSUKE
APPLICANT: TAKI, SHINSUKE
APPLICANT: TAKI, SHINSUKE
TITLE OF INVENTION: POLYPEPTIDES CAPABLE OF BINDING TO HEAVY
TITLE OF INVENTION: CHAINS OF IL-2 RECEPTORS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLOWN, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C.
                                                                                                                                                                                                                       195 RFSGSGSGTDFTLSINSVESEDIADYYCQHTNSWPTTFGGGTKLEIK 241
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88.8%; Pred. No. 3.9e-40;
live 7; Mismatches 5; Indels
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COMPUTER READABLE FORM:
MEDITUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/956,399
FILING DATE: 19921005
ATTONEY/AGENT INFORMATION:
NAME: Oblon, No. 5876717man F.
REGISTRATION NUMBER: 24,618
REGISTRATION NUMBER: 24,618
REGISTRATION NUMBER: 10-586-0
TELEPAN: (703) 413-220
TELEFAX: 239 antho acids
"WINDOWATTION FOR SEQ ID NO: 4: SEQUENCE CHARACTERISTICS:
LENGTH: 239 antho acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1755 S. Jefferson Davis Highway, Suite 400
     88.8%; Pred. No. 2.6e-40;
tive 7; Mismatches 5;
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     Best Local Similarity 88.8 Matches 95; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 1755 S. J
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
Matches 95; Conserva
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APPLICANT: Barbera-Guillem, Emilio
APPLICANT: Barbera-Guillem, Emilio
TITLE OF INVENTION: Method for detecting lymphoid tissue involved in tumor progressic
TITLE FERENCE: Phy-03
CURRENT APPLICATION NUMBER: 02/09/940,391
CURRENT FILING DATE: 1999-02-04
PRIOR PILING DATE: 1999-02-04
PRIOR PLING DATE: 1998-03-13
PRIOR PLING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/077,970
PRIOR APPLICATION NUMBER: 60/077,970
PRIOR APPLICATION NUMBER: 60/077,970
PRIOR PILING DATE: 1998-03-13
PRIOR PLING DATE: 1998-03-13
PRIOR PLING DATE: 1998-03-13
PRIOR PLING APPLICATION NUMBER: 60/073,882
PRIOR PLING DATE: 1998-03-14
PRIOR PLING DATE: 1998-03-14
PRIOR PLING DATE: 1998-04-04
SEQ ID NOS: 1
LENGTH: 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Barbera-Guillem, Emilio
TITLE OF INVENTION: Method for detecting and surgically removing lymphoid tissue invo
TITLE OF INVENTION: tunor progression
TITLE OF INVENTION: tunor progression
CURRENT APPLICATION NUMBER: US/09/244,369B
CURRENT APPLICATION NUMBER: US 60/073,882
PRIOR APPLICATION NUMBER: US 60/073,882
PRIOR APPLICATION NUMBER: US 60/077,970
PRIOR FILING DATE: 1998-03-13
NUMBER OF EXQ ID NOS: 1
SOFTWARE: Patentin version 3.0
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                                                                                  1 DILLTQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS 60
                                                                                                                 1 DILLIQSPAILSVSPGERVSFSCRASQTIGTSIHWYQRRTNGSPRLLIKYASESISGIPS 60
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                                 Gaps
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88.8%; Pred. No. 2.6e-40;
tive 7; Mismatches 5; Indels
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                               4; Indels
     89.7%; Pred. No. 4.4e-41; tive 7; Mismatches 4
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                                                                                                                                                                                                                                                                                                                                                                          Sequence 1, Application US/09244369B Patent No. 6418338 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 88.8
Matches 95; Conservative
                               96; Conservative
Best Local Similarity
Matches 96; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Mus sp.
US-09-244-369B-1
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; ORGANISM: Mus sp.
US-09-940-391-1
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INFORMATION FOR SEQ ID NO: 4: SEQUENCE CHARACTERISTICS: LENGTH: 106 amino acids
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Best Local Similarity 87.7%;
Matches 93; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid TOPOLOGY: linear // MOLECULE TYPE: peptide US-08-326-362-4
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US-08-476-176B-4
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SECUENCE 1 INVERTION: Grhard
TITLE OF INVENTION: Hs Preparation and Use as a Tumortherapeutic Agent
NUMBER OF EQUENCES: 4
CORRESPONDENCE ADDRESS: 4
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & ADDRESSEE: Dunner
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
STREET: LOWER ADDRESS: STREET: LOWER ADDRESSEE: STREET: STREET: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 DILLIQSPAILSVSPGERVSPSCRASQSIGTSIHWYQQRTNGSPRILIKYASESLSGIPS 61
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GENERAL INFORMATION:
APPLICANT: SHIMMANNEA, TOSHIRO
APPLICANT: SHIMMANNEA, TOSHIRO
APPLICANT: ALXI, SHINGUKE
APPLICANT: TAKI, SHINGUKE
APPLICANT: HAMURO, JUNJI
TITLE OF INVENTION: POLYPEPTIDES CAPABLE OF BINDING TO HEAVY
TITLE OF INVENTION: CHAINS OF IL-2 RECEPTORS
NUMBER OF SEQUENCES: ADDRESSE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C.
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: ALINGOLA
STATE: Virginia
STATE: Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

APPLICATION NUMBER: US/07/956,399

FLING DATE: 19921005

CLASSIFICATION: S30

ATTORNEY/AGENT INFORMATION:

NAME: Oblon, No. 5876717man P.

REGISTRENCE/DOCKET NUMBER: 10-586-0

TELEPHONE: (703) 413-220

TELEPHONE: (703) 413-220
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AMINO ACID
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ZIP: 20005-3315
COMPUTER READABLE FORM:
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US-08-326-362-4
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1 DIQLIQSPALLSVSPGERVSFSCWASQSIGTSIHWYQQRINGSPRLLIKYSSESISGIPS 60
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GARRAL INFORMATION

APPLICANT: Hardman, No. 5958708man

APPLICANT: Saldama, Jose

APPLICANT: Saldama, Jose

TITLE OF INVENTION: Immunoglobulin isotype

CORRESPONDENCE ADDRESS: 55

CORRESPONDENCE ADDRESS: STREET: 59 Route 10

CITY: East Hanover

STATE: New Jersey

COUNTRY: USA

ZIP: 07936-1080

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DAMBER: US/08/476,176B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 496; DB 1; Length 106;
Pred. No. 3.9e-40;
9; Mismatches 4; Indels
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MEDIUM TYPE: Floppy disk
CCMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/326,362
FLING DATE: US/08/326,362
CLASSIFICATION DATA:
FLING DATE: 17-MR-1993
FILING DATE: 17-MR-1993
APPLICATION NUMBER: US 08/032,863
FILING DATE: 19-MAR-1993
APPLICATION NUMBER: DS P 42 08 795.3
FILING DATE: 19-MAR-1992
ATTONEY/AGENT INPORMATION:
NAME: Elemendi, Carol P.
REGISTRATION NUMBER: 32,220
REFERENCE/DOCKET NUMBER: 32,220
REFERENCE/DOCKET NUMBER: 32,220
REFERENCE/DOCKET NUMBER: 32,220
REFERENCE/DOCKET NUMBER: 02481-1276-00000
TELEFPK: 202-408-4400
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Gaps

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1 DILLIQSPAILSVSPGERVSFSCRASQSIGTNIHWYQQRTDGSPRLLIKYASESISGIPS 60
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                                                                                                                                                                                                                                                                                                                                                                         Sequence 4, Application US/08485246A
Patent No. 6072035
GENERAL INFORMATION:
APPLICANT: Hardman, No. 6072035man
APPLICANT: Kolbinger, Frank
APPLICANT: Saldanha, Jose
TITLE OF INVENTION: Reshaped monoclonal antibodies against an TITLE OF INVENTION: immunoglobulin isotype
NUMBER OF SEQUENCES: 55
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                        61 RFSGSGSGTEFTLNINSVESEDIADYYCQQSDSWPTTFGGGTKLBIK 107
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Score 494; DB 3; Length 107;
Pred. No. 6e-40;
9; Mismatches 5; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: No. 6072035artis Patent Department STREET: 59 Route 10 CITY: Bast Hanover STATE: New Jersey COUNTRY: USA ZIP: 07936-1080 COMPUTER READABLE PORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/W8-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION DATA: APPLICATION NUMBER: US/08/485,246A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match

Best Local Similarity 86.9%; Pred. No. 6e-40;
Matches 93; Conservative 9; Mismatches
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CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/127,721
FILING DATE: 27-SEPTEMBER-1993
APPLICATION NUMBER: US 07/952,802
FILING DATE: 25-SEPTEMBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: NO. 6072035ak, Henry P.
REGISTATION NUMBER: 33,200
REFERENCE/DOCKET NUMBER: 4-19276/A/F
TELEPHONE: (908) 277-5110:
     Query Match
Best Local Similarity 86.9%;
Matches 93; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (908) 277-511
TELEFAX: (908) 277-4306
INFORMATION FOR SEQ ID NO: 4
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE: protein
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Sequence 4, Application US/08127721A
Fatent No. 6066718
GENERAL INFORMATION:
APPLICANT: Hardman, No. 6066718man
APPLICANT: Saldanha, Jose
TITLE OF INVENTION: Reshaped monoclonal antibodies against an TITLE OF INVENTION: Immunoglobulin isotype
TITLE OF INVENTION: Immunoglobulin isotype
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6066718artis Patent and Trademark Department
STREET: 59 Route 10
CITY: East Hanover
STRATE: New Jersey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 RFSGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFTFGSGTNLEVK 107
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                                                                                                                                                                                                                                                                                                                                                                                 88.7%; Score 494; DB 2; Length 107; 86.9%; Pred. No. 6e-40; tive 9; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: DASAL MANDOWEL
STATE: New Jersey
COUNTRY: USA
ZIP: 07936-1080
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
COMPUTER: IEM PC compatible
COMPUTER: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/127,721A
FILING DATE: 27-SEPTEMBER-1993
CLASSIFICATION: DATA:
APPLICATION NUMBER: US 07/952,802
FILING DATE: 25-SEPTEMBER-1992
ATTORNEY/AGENT INFORMATION:
NAME: NO. 6066718ak, Henry P.
REGISTRATION NUMBER: 33.200
REGISTRATION NUMBER: 33.200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 4-19276/A/P2/CIP
TELECOMMUNICATION INFORMATION:
TELEPRONE: (908) 277-4310
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                       4-19276/A/P2/CIP
                               NAME: No. 5958708ak, Henry P.
REGISTRATION VMBER: 33,200
REGISTRATION VMBER: 4-1927
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPRA: (908) 277-4306
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 107 amino acids
TYPE: amino acids
             ATTORNEY/AGENT INFORMATION:
NAME: No. 5958708ak, Hen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 107 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 86.9
Matches 93; Conservative
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                                                                                                                                                                                                                                                                                                            , MOLECULE TYPE: protein US-08-476-176B-4
                                                                                                                                                                                                                                                                                          linear
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Search completed: December 15, 2004, 17:22:50 Job time : 28.4602 secs

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557
1 DILLTQSPAILSVSPGERVS......CQQSHSWPFTFGSGTNLEVK 107
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1: /cgm2_6/ptodata/2/pubpaa/PCN_BVBCOMB.pep:*
2: /cgm2_6/ptodata/2/pubpaa/PCN_BW PUB.pep:*
3: /cgm2_6/ptodata/2/pubpaa/USO6_NEW PUB.pep:*
4: /cgm2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
5: /cgm2_6/ptodata/2/pubpaa/USO6_PUBCOMB.pep:*
6: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
7: /cgm2_6/ptodata/2/pubpaa/USO8_NEW PUB.pep:*
8: /cgm2_6/ptodata/2/pubpaa/USO8_NEW PUB.pep:*
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10: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
11: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
13: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
14: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
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19: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
10: /cgm2_6/ptodata/2/pubpaa/USO8_PUBCOMB.pep:*
                                    GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Perfect score:
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                                                                                                                                                                                                                                                               Run on:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| | Description | Sequence 3, Appli | m | Seguence 3, Appli |
|------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|-------------------|
| | ID | US-09-756-301A-3 | US-09-927-703-3 | US-09-766-535A-3 | US-09-756-161A-3 | US-09-756-398B-3 | US-09-897-724-3 | US-10-010-229-3 | US-10-043-450-3 | US-10-044-534-3 | US-10-043-432-3 | US-10-208-145-3 | US-10-198-845-3 | US-10-227-488-3 |
| | DB | 6 | σ | σ | 6 | 10 | 10 | 13 | 13 | 13 | 14 | 14 | 14 | 14 |
| | Match Length DB | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 | 107 |
| * Query | Match | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | Score | 557 | 557 | 557 | 557 | 557 | 557 | 557 | 557 | 557 | 557 | 557 | 557 | 557 |
| Result | No. | 1 | 8 | m | 4 | Ŋ | œ | 7 | œ | o, | 10 | 11 | 12 | 13 |

| Sequence 3, Appli Sequence 42, Appli Sequence 43, Appli Sequence 48, Appli | |
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| 557 100.0 107 14 US-10-187-121-3 557 100.0 107 14 US-10-176-460-3 557 100.0 107 14 US-10-176-460-3 557 100.0 107 14 US-10-176-460-3 557 100.0 107 14 US-10-371-961-3 557 100.0 107 14 US-10-371-961-3 557 100.0 107 14 US-10-371-441-3 557 100.0 107 14 US-10-371-442-3 557 100.0 107 14 US-10-371-442-3 557 100.0 107 16 US-10-471-037-42 557 100.0 226 15 US-10-471-037-42 557 100.0 226 15 US-10-471-037-42 557 100.0 226 15 US-10-471-037-42 557 100.0 226 16 US-10-471-030-42 557 20.0 20.1 107 15 US-10-330-42 557 20.0 20.1 107 15 US-10-330-42 556-49 558 20.1 107 15 US-10-330-42 556-49 558 20.1 107 15 US-10-330-42 556-49 558 20.1 107 15 US-10-330-42 56-49 568 20.1 107 10 US-10-330-42 568 20.1 10 US-10-330-42 568 20.1 10 US-10-330-42 568 20.1 10 US-10-330-42 | ALIGNMENTS SEQUENCE 3, Application US/09756301A APPLICANT: Le, Junming APPLICANT: Le, Junming APPLICANT: Might, Jan APPLICANT: Might, Javid M. APPLICANT: Might, David M. CURRENT FILING DATE: 1998-08-12 PRIOR FILING DATE: 1998-08-12 PRIOR FILING DATE: 1998-08-12 PRIOR FILING DATE: 1994-02-04 PRIOR FILING DATE: 1994-02-05 PRIOR FILING DATE: 1994-02-05 PRIOR FILING DATE: 1994-02-05 PRIOR FILING DATE: 1994-02-05 PRIOR FILING DATE: 1994-02-07 PRIOR FILING DATE: 1994-02-07 PRIOR FILING DATE: 1994-02-07 PRIOR FILING DATE: 1994-02-07 PRIOR FILING DATE: 1993-01-29 |
| | RESULT 1 US-09-75% Sequency Declaration APPLICATION AP |

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                                                                                                                                                                                                                                                                                                               Length 107;
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PRIOR APPLICATION NUMBER: U.S. 09/756,398

PRIOR PELING DATE: 1998-08-12

PRIOR APPLICATION NUMBER: U.S. 08/192,102

PRIOR PELING DATE: 1998-08-12

PRIOR PELING DATE: 1994-10-18

PRIOR PELING DATE: 1994-02-04

PRIOR PELING DATE: 1992-03-11

PRIOR PELING DATE: 1992-03-18

PRIOR PELING DATE: 1992-03-18
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; Pred. No. 9.2e-45;
0; Mismatches 0;
PRIOR APPLICATION NUMBER: U.S.07/670,827
PRIOR FILING DATE: 1991-03-18
NUMBER OF SEQ ID NOS: 19
SCFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 3
LENGTH: 107
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Patent No. US20020022720A1
GENERAL INFORMATION:
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Best Local Similarity 100.0%;
Matches 107; Conservative 0
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; ORGANISM: Mus Balb/c
US-09-756-301A-3
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ORGANISM: Mus Balb/c
US-09-927-703-3
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Best Local Similarity
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SEQ ID NO 3
LENGTH: 107
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                                                       1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Daddonar Peter
APPLICANT: Ghrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Anti-TNF Antibodies and Pept:
TITLE OF INVENTION: Human Tumor Necrosis Factor
FILE REFERENCE: 0975.1005-010
CURRENT APPLICATION NUMBER: US/09/766,535A
CURRENT FILING DATE: 2001-01-18
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PRIOR PELING DATE: 1998-08-12
PRIOR PELING DATE: 1998-08-12
PRIOR PELING DATE: 1998-08-12
PRIOR PELING DATE: 1995-12-11
PRIOR PELING DATE: 1995-12-11
PRIOR APPLICATION NUMBER: U.S. 08/324,799
PRIOR PELING DATE: 1994-02-04
PRIOR PELING DATE: 1993-01-29
PRIOR PELING DATE: 1993-01-29
PRIOR APPLICATION NUMBER: U.S. 08/103,413
PRIOR PELING DATE: 1993-01-29
PRIOR APPLICATION NUMBER: U.S. 08/013,413
PRIOR PELING DATE: 1993-02-02
PRIOR APPLICATION NUMBER: U.S. 07/943,652
PRIOR PELING DATE: 1992-09-11
PRIOR PELING DATE: 1992-09-11
PRIOR PELING DATE: 1992-03-18
PRIOR PELING DATE: 1991-03-18
PRIOR PELING DATE: 1991-03-18
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 3
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US-09-756-161A-3
; Sequence 3, Application US/09756161A
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        107; Conservative
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APPLICANT: Vilcek, Jan
APPLICANT: Daddona; Peter
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Best Local Similarity
Matches 107; Conserva
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; ORGANISM: Mus Balb/c
US-09-766-535A-3
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US-097-724-3

US-097-724-3

US-097-724-3

Publication No. US20030175837A1

GENERAL INFORMATION:

APPLICANT: Using Peter

APPLICANT: Daddona, Peter

APPLICANT: Siegal, Soct

TITLE OF INVENTION: Human Tumor Necrosis Factor

FILE REFERENCE: 0975-1005-007

TITLE OF INVENTION: Human Tumor Necrosis Factor

FILE REFERENCE: 0975-1005-007

FILE REFERENCE: 0975-1005-007

FILE REFERENCE: 1091-00-007

FILE REFERENCE: 1091-00-007

FILE REFERENCE: 1091-00-007

FRICH REPLICATION NUMBER: U.S. 08/192,093

PRIOR PILING DATE: 1993-01-29

PRIOR PILING DATE: 1993-01-29

PRIOR PILING DATE: 1993-01-29

PRIOR FILING DATE: 1993-02-01

PRIOR FILING DATE: 1992-09-11

PRIOR PILING DATE: 1992-09-11

PRIOR FILING DATE: 1992-09-11

PRIOR PRIOR PRIOR DATE: 1992-09-11

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100.0%; Score 557; DB 10;
Best Local Similarity 100.0%; Pred, No. 9.2e-45;
Matches 107; Conservative 0; Mismatches 0;
PRIOR FILING DATE: 1998-08-12
PRIOR APPLICATION NUMBER: U.S. 08/570,674
PRIOR FILING DATE: 1995-12-11
PRIOR FILING DATE: 1995-12-11
PRIOR FILING DATE: 1994-10-18
PRIOR FILING DATE: 1994-02-04
PRIOR FILING DATE: 1993-02-04
PRIOR FILING DATE: 1993-02-04
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-03-18
PRIOR FILING DATE: 1992-03-18
NUMBER OF SEQ ID NOS: 19
SECTIONARE: FASTSEQ FOR WINDOWS VERSION 4.0
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; ORGANISM: Mus Balb/c
US-09-756-398B-3
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PUblication No. US20030017584A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Vilcek, Jan
APPLICANT: Daddona, Peter
APPLICANT: Braddona, Peter
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Anti-TNY Antibodies and Peptides of
TITLE OF INVENTION: Anti-TNY Antibodies and Peptides
TITLE REFERENCE: 0975.1005-006
TITLE REFERENCE: 0975.1005-006
CURRENT APPLICATION NUMBER: US/09/756,398B
CURRENT APPLICATION NUMBER: US. 09/133,119
                                                                                                                                        APPLICANT: Orleak, Jan
APPLICANT: Ghrayeb, John
APPLICANT: Ghrayeb, John
APPLICANT: Siegel, David M.
APPLICANT: Siegel, David M.
APPLICANT: Siegel, David M.
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Atti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Atti-TNF Antibodies and Peptides
CURRENT FILING DATE: 1998-08-12
PRIOR PELICATION NUMBER: U.S. 08/132,799
PRIOR PELICATION NUMBER: U.S. 08/192,093
PRIOR PILING DATE: 1994-02-04
PRIOR PILING DATE: 1993-02-02
PRIOR PILING DATE: 1993-02-02
PRIOR PILING DATE: 1993-03-18
PRIOR PILING DATE: 1992-09-11
PRIOR PILING DATE: 1992-09-11
PRIOR PILING DATE: 1992-03-18
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Matches 107; Conservative
               . US20020132307A1
NFORMATION:
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; ORGANISM: Mus Balb/c
US-09-756-161A-3
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                                                                                            Length 107;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Le, Junning
APPLICANT: Le, Junning
APPLICANT: Vilcek, Jan
APPLICANT: Daddona, Peter
APPLICANT: Ghrayeb, John
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Human Tumor Necrosis Factor
TITLE OF INVENTION: Human Tumor Necrosis Factor
TITLE OF INVENTION: Human Tumor Necrosis Factor
FILE REFERENCE: 0975.105--013
CURRENT APPLICATION NUMBER: US/10/10/229
CURRENT APPLICATION NUMBER: US/09/927,703
PRIOR FILING DATE: 2001-08-10
NUMBER OF SEQ ID NOS: 19
SEQ ID NOS: 19
SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3, Application US/10043450
| Publication No. US20020141996A1
| GENERAL INFORMATION:
| APPLICANT: Le, Junming
| APPLICANT: Le, Junming
| APPLICANT: Daddona, Peter
| APPLICANT: Grayeb, John
| APPLICANT: Grayeb, John
| APPLICANT: Siegel, Scott
| TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of ITLE OF INVENTION: Human Tumor Necrosis Factor
| FILE REPRENCE: 0977.1005-013
| FILE REPRENCE: 0977.1005-013
| CURRENT APPLICANT: US/10/043,450
| CURRENT FILING DATE: 2002-01-10
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                                                                                            100.0%; Score 557; DB 10; 100.0%; Pred. No. 9.2e-45;
                                                                                                                                            0; Mismatches
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Best Local Similarity 100."
Matches 107; Conservative
                                                                                                                   Best Local Similarity 100.
Matches 107; Conservative
; TYPE: PRT
; ORGANISM: Mus Balb/c
US-09-897-724-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
CRGANISM: Mus Balb/c
US-10-010-229-3
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US-10-043-450-3
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US-10-010-229-3
                                                                                              Query Match
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1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRINGSPRLLIKYASESMSGIPS 60
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US-10-44-534

Dublication No US20020146419A1

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Le, Junming

APPLICANT: Daddona, Peter

APPLICANT: Glageb, John

APPLICANT: Siegel, Scott

ITILE OF INVENTION: Anti-TNF Antibodies and Peptides of

TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of

TITLE OF INVENTION: Human Tumor Necrosis Factor

CURRENT FILING DATE: 2002-01-0

PRIOR APPLICATION NUMBER: U.S. 09/133,119

PRIOR FILING DATE: 1998-08-12

PRIOR APPLICATION NUMBER: U.S. 08/570,674

PRIOR APPLICATION NUMBER: U.S. 08/324,799

PRIOR FILING DATE: 1998-121

PRIOR APPLICATION NUMBER: U.S. 08/324,799
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PRIOR APPLICATION NUMBER: 09/927,703
PRIOR FILING DATE: 2001-08-10
PRIOR FILING DATE: 2001-01-08
PRIOR FILING DATE: 2001-01-08
PRIOR FILING DATE: 2001-01-08
PRIOR FILING DATE: 1998-08-12
PRIOR PILING DATE: 1998-08-12
PRIOR APPLICATION NUMBER: U.S. 08/570,674
PRIOR FILING DATE: 1998-12-11
PRIOR PELING DATE: 1994-02-01
PRIOR FILING DATE: 1994-02-04
PRIOR FILING DATE: 1993-01-29
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1991-00-18
PRIOR FILING DATE: 1991-00-18
PRIOR FILING DATE: 1991-00-18
PRIOR FILING DATE: 1991-00-18
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ORGANISM: Mus Balb/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-043-450-3
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APPLICANT: Le, Junning
APPLICANT: Utick, Jan
APPLICANT: Chrydeb, John
APPLICANT: Chrydeb, John
APPLICANT: Chrydeb, John
APPLICANT: Stegel, Screen
APPLICANT: Stegel, Screen
APPLICANT: Stegel, Screen
TILE OF INVENTION: Anti-TWF Antibodies and Peptides of
TILE OF INVENTION: Anti-TWF Antibodies and Peptides of
TILE REFERENCE: 0975.1005-006
CURRENT APPLICANTON NUMBER: US/09/756,398
PRIOR APPLICATION NUMBER: U.S. 09/133,119
PRIOR APPLICATION NUMBER: U.S. 09/133,119
PRIOR FILING DATE: 1998-10-18
PRIOR FILING DATE: 1998-10-18
PRIOR PELICATION NUMBER: U.S. 08/192,061
PRIOR PELICATION NUMBER: U.S. 08/192,093
PRIOR PELICATION NUMBER: U.S. 08/013,413
PRIOR PELICATION NUMBER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 RFSGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFTFGSGTNLEVK 107
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100.0%; Pred. No. 9.2e-45;
iive 0; Mismatches 0;
   PRIOR APPLICATION NUMBER: U.S. 07/943,852
PRIOR FILING DATE: 1992-09-11
PRIOR APPLICATION NUMBER: U.S. 07/853,606
PRIOR FILING DATE: 1992-03-16
PRIOR PLING DATE: 1991-03-18
NUMBER OF SEQ ID NOS: 19
SEQ ID NO 3
SEQ ID NO 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 100.0
Matches 107; Conservative
                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
CRGANISM: Mus Balb/c
US-10-043-432-3
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publication No. US20030054004A1

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Le, Junming

APPLICANT: Daddona, Peter

APPLICANT: Ghrayeb, John

APPLICANT: Ghrayeb, John

APPLICANT: Siegel, Scott

IITLE OF INVENTION: Anti-TNF Antibodies and Peptides of

IITLE OF INVENTION: Anti-TNF Antibodies and Peptides of

IITLE OF INVENTION: Mumber: 105/0043,432

CURRENT APPLICATION NUMBER: 09/927,703

PRIOR PELICATION NUMBER: 09/927,703

PRIOR PELICATION NUMBER: U.S. 09/133,119

PRIOR PELICATION NUMBER: U.S. 09/133,119

PRIOR APPLICATION NUMBER: U.S. 09/133,119

PRIOR PELICATION NUMBER: U.S. 08/570,674

PRIOR APPLICATION NUMBER: U.S. 08/570,674

PRIOR PELING DATE: 1998-08-12

PRIOR APPLICATION NUMBER: U.S. 08/192,861

PRIOR APPLICATION NUMBER: U.S. 08/192,861

PRIOR APPLICATION NUMBER: U.S. 08/192,861

PRIOR APPLICATION NUMBER: U.S. 08/192,093

PRIOR APPLICATION NUMBER: U.S. 08/192,093

PRIOR PELING DATE: 1994-02-04

PRIOR PELING DATE: 1994-02-04

PRIOR PELING DATE: 1994-02-04

PRIOR PELING DATE: 1993-02-04

PRIOR PELING DATE: 1993-02-05

PRIOR PELING DATE: 1993-02-05

PRIOR PELING DATE: 1993-02-05
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100.0%; Score 557; DB 13;
Best Local Similarity 100.0%; Pred. No. 9.2e-45;
Matches 107; Conservative 0; Mismatches 0;
PRIOR APPLICATION NUMBER: U.S. 08/192,102
PRIOR FILING DATE: 1994-02-04
PRIOR PLING DATE: 1994-02-04
PRIOR PLING DATE: 1994-02-04
PRIOR PLING DATE: 1994-02-04
PRIOR PLING DATE: 1994-02-04
PRIOR APPLICATION NUMBER: U.S. 08/192,093
PRIOR PLING DATE: 1994-02-04
PRIOR PLING DATE: 1993-01-29
PRIOR PLING DATE: 1993-01-29
PRIOR PLING DATE: 1993-01-29
PRIOR PLING DATE: 1993-02-02
PRIOR PRING DATE: 1993-09-11
PRIOR PLING DATE: 1992-09-11
PRIOR PLING DATE: 1992-09-11
PRIOR PLING DATE: 1992-09-12
PRIOR PLING DATE: 1992-09-13
PRIOR PLING DATE: 1992-09-13
PRIOR PLING DATE: 1992-09-13
PRIOR APPLICATION NUMBER: U.S. 07/853,606
PRIOR APPLICATION NUMBER: U.S. 07/853,606
PRIOR SEQ ID NOS: 19
PRIOR SEQ ID NOS: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT; ORGANISM: Mus Balb/c
US-10-044-534-3
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| Sequence 3. Replication US/10198445
| Sequence 3. Replication No. US20030144484A1
| GENERAL INFORMATION:
| APPLICANT: Usek, Jan
| APPLICANT: Daddona, Peter |
| APPLICANT: Might, David M. |
| TITLE OF INVENTION: Anti-TMF Antibodies and Peptides Of TITLE OF INVENTION: Anti-TMF ANTIBODIES PACED. |
| TITLE OF INVENTION: Mimmar: Us/10/198, 845 |
| CURRENT FLING DATE: 2002-07-18 |
| PRIOR FILING DATE: 199-08-12 |
| PRIOR FILING DATE: 199-08-12 |
| PRIOR FILING DATE: 199-08-12 |
| PRIOR PAPLICATION NUMBER: U.S. 08/192, 102 |
| PRIOR PAPLICATION NUMBER: U.S. 08/192, 102 |
| PRIOR PAPLICATION NUMBER: U.S. 08/192, 861 |
| PRIOR FILING DATE: 1994-10-18 |
| PRIOR FILING DATE: 1994-02-04 |
| PRIOR FILING DATE: 1994-02-04 |
| PRIOR FILING DATE: 1994-02-04 |
| PRIOR FILING DATE: 1993-02-04 |
| PRIOR FILING DATE: 1993-02-04 |
| PRIOR FILING DATE: 1993-02-05 |
| PRIOR PAPLICATION NUMBER: U.S. 08/193,852 |
| PRIOR PAPLICATION NUMBER: U.S. 08/193,853 |
| PRIOR PAPLICATION NUMBER: U.S. 08/193,852 |
| PRIOR PAPLICATION NUMBER:
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                                Indels
Best Local Similarity 100.0%; Pred. No. 9.2e-45; Matches 107; Conservative 0; Mismatches 0;
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Best Local Similarity 100.
Matches 107; Conservative
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; ORGANISM: Mus Balb/c
US-10-198-845-3
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RESULT 13 US-10-227-488-3 ; Sequence 3, Application US/10227488

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     PRIOR FILING DATE: 1994-02-04
PRIOR APPLICATION NUMBER: U.S. 08/192,093
PRIOR PILING DATE: 1994-02-04
PRIOR FILING DATE: 1993-01-03
PRIOR FILING DATE: 1993-01-29
PRIOR FILING DATE: 1993-02-02
PRIOR PLING DATE: 1993-02-02
PRIOR PLING DATE: 1993-02-02
PRIOR PLING DATE: 1992-02-11
PRIOR PLING DATE: 1992-02-18
PRIOR PLING DATE: 1992-03-18
PRIOR PLING DATE: 1992-03-18
PRIOR APPLICATION NUMBER: U.S. 07/670,827
PRIOR PRIOR DATE: 1991-03-18
PRIOR PLING DATE: 1991-03-18
PRIOR PLING DATE: 1991-03-18
PRIOR PLING DATE: 1991-03-18
PRIOR PLING DATE: 1991-03-18
PRIOR FILING DATE: 1991-03-18
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Job time : 93.3761 secs
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US-10-176-460-3
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100.0%; Score 557; DB 14;
Best Local Similarity 100.0%; Pred. No. 9.2e-45;
Matches 107; Conservative 0; Mismatches 0;
CURRENT FILING DATE: 2002-06-29
PRIOR APPLICATION NUMBER: US 09/756,398
PRIOR FILING DATE: 2001-01-06
PRIOR FILING DATE: 1996-08-12
PRIOR APPLICATION NUMBER: U.S. 09/133,119
PRIOR PILING DATE: 1996-08-12
PRIOR PILING DATE: 1996-08-12
PRIOR PILING DATE: 1996-08-12
PRIOR PILING DATE: 1994-02-04
PRIOR PILING DATE: 1993-02-05
PRIOR APPLICATION NUMBER: U.S. 08/192,093
PRIOR PILING DATE: 1993-01-29
PRIOR PILING DATE: 1993-01-29
PRIOR APPLICATION NUMBER: U.S. 08/010,406
PRIOR APPLICATION NUMBER: U.S. 07/943,852
PRIOR PILING DATE: 1993-01-29
PRIOR APPLICATION NUMBER: U.S. 07/943,852
PRIOR PILING DATE: 1992-09-11
PRIOR PILING DATE: 1992-09-11
PRIOR APPLICATION NUMBER: U.S. 07/943,852
PRIOR APPLICATION NUMBER: U.S. 07/943,857
PRIOR APPLICATION NUMBER: U.S. 07/953,606
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
ORGANISM: Mus Balb/c
US-10-187-121-3
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462.659 Million cell updates/sec
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1 DILLTQSPAILSVSPGERVS......CQQSHSWPFTFGSGTNLEVK 107
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| SA | Description | kappa cha | thain pr | kappa chain pr | kappa chain | :i-glycopr | kappa chain p | :i-glycoprot | i-glycoprotei | g light chain V | g kappa chain pr | g kappa chain V | g kappa chain V | g kappa chain V | g kappa chain pr | g kappa chain V- | g kappa chain - | g kappa chain V | g kappa chain V- | g kappa chain V | kappa chain | g kappa chain V | g kappa chain V- | g kappa chain V | g kappa chain NI | g kappa chain - | g kappa chain pr |
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| SUMMAKIES | | C30502 | PN0445 | KVMSL7 | PL0267 | C45722 | S35479 | A45722 | B45722 | PH1082 | A26471 | B43413 | S26346 | S19975 | PL0106 | 809963 | S40362 | S23628 | S40379 | G33730 | S40343 | 834005 | K3 HUPM | A56701 | S54905 | S19674 | S42466 | JE0244 | S40315 | 966008 |
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| Ig kappa chain V r Ig kappa chain pre Ig kappa chain pre Ig kappa chain pre Ig kappa chain V-J Ig kappa chain V-J Ig kappa chain V-I | ALIGNMENTS | SULT 1 Note that I region (D444) - mouse Species: Mus musculus (house mouse) Species: Mus musculus (house mouse) Accession: C30502 Accession: C30502 Immunol. 141, 1745-1753, 1988 Title: V region sequences of anti-DNA and anti-RNA autoantibodies from NZB/NZW F-1 mix. Reference number: A30502; MUID:88315787; PMID:2457627 Accession: C30502 Status: preliminary Molecule type: mRNA Cross-references: GB:M21907; NID:g197071; PIDN:AAA38907.1; PID:g197072 Superimally: immunoglobulin V vegion; immunoglobulin homology Keywords: heterotetramer; immunoglobulin homology cIMM> 16-90/Domain: immunoglobulin homology <imm></imm> | Score 504; DB 2; Length 108; Pred. No. 6.7e-38; 9; Mismatches 4; Indels 0; Gaps 0; | | RESULT 2 PN0445 Ig kappa chain precursor V-I region - human (fragment) C;Species: Homo saplens (man) C;Species: Homo saplens (man) C;Stecies: Homo saplens (man) R;Kaluza, B: Bettl, G: Shao, H.; Diamantsein, T.; Weidle, U.H. R;Kaluza, B: Bettl, G: Shao, H.; Diamantsein, T.; Weidle, U.H. A;Reference number: PN0444; MUID:93138402; PMID:1339379 A;Reference number: PN0444; MUID:93138402; PMID:1339379 A;Residues (B:LD2347 A;Residues (B:LD2347 C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Superfamily: signal sequence #status predicted <sig>F;11-120/Domain: signal sequence #status predicted (MAT>F;26-100/Domain: immunoglobulin homology <inm></inm></sig> |
|--|------------|--|--|---------------------------------------|---|
| G44151 B49047 XXHU411 JE0243 S57444 B26555 B26555 B30633 H30601 XMS4334 KVMS43 S40370 C30608 A30608 | ALIG | 44) - mouse use mouse) ce_revision 0 Rees, A.R. 1988 of anti-DNA MUID:8831578 inwunoglobul lin homology | Score Pred. 9; Mis | PGERVSFSCRAS | ion - hu rision 3 ; Diama ;; Diama Imerizat :9313840 :egion; region; regiobul regrobul |
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| | | RESULT 1 C30502 IG kappa chain V region (D444) IG kappa chain V region (D444) IG species: Mus musculus (bouse of c) Accession: C30502 Immunol. 141, 1145-1753, 198 A;Title: V region sequence of c) A;Reference number: A30502; A;Accession: C30502 A;Status: preliminary A;Residues: 1-108 cELL> A;Cross-references: GB:M21907; A;Cross-references: | Query Ma Best Loc Matches | 95 Sy 85 | RESULT S PNO445 IG Kappe IG Kappe IG Specie C, Specie C, Access C, Access C, Access A, Acces A, Refere A, Refere A, Residu A, Residu C, Supes C, Supes C, Supes C, Supes F, 11-12 F, 11-12 |
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76.8%; Score 428;
                                                                                         Conservative
                                                        Query Match
Best Local Similarity
Matches 79; Conserv
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Matches 77; Conserv
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PLO267
Iq kappa chain V region (anti-DNA, DP12VK) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Dte::16-Sep-1992 #sequence_revision 16-Sep-1992 #text_change 21-Jan-2000
C;Accession: PLO267
A;Shlomchik, M; Mascelli, M; Shan, H.; Radic, M.Z.; Pisetsky, D.; Marshak-Rothstein, A;Shlomchik, M; Mascelli, M:; Shan, H.; Radic, M.Z.; Pisetsky, D.; Marshak-Rothstein, A;Title: Anti-DNA antibodies from autoimmune mice arise by clonal expansion and somatic A;Reference number: PLO237, 1990
A;Accession: PLO267
A;Accession: PLO231; MUID:9011618; PMID:2104919
A;Accession: PLO6 cSHL
A;Residues: 1-106 cSHL
C;Superfamily: immunoglobulin V region; immunoglobulin
F;1-23/Region: framework 1
F;16-90/Domain: immunoglobulin homology <br/>C;Keyords: immunoglobulin homology <br/>F;24-34/Region: framework 1
F;15-34/Region: complementarity-determining 1
F;50-56/Region: complementarity-determining 2
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                                                             1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS
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                                                                                                                                            DB 1; Length 115;
 Length 128;
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Best Local Similarity 93.7%; Pred. No. 1.1e-34;
Matches 89; Conservative 5; Mismatches 1; Indels
                               5; Indels
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Score 497; DB 2;
Pred. No. 3.3e-37;
9; Mismatches 5;
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89.2%;
                               Conservative
                Similarity
                               93;
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Query Match
Best Local
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Ig kappa chain precursor V region - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 1-9 Mar-1997 #sequence_revision 05-Dec-1998 #text_change 21-Jan-2000
C;Accession: 835479
R;Takeda, Y; Wise, K.S.; Hoffman, R.W.
Nucleic Acids Res 20, 4099, 1999, NW.
A;Title: Nucleotide sequences of immunoglobulin heavy and light chain V-regions from a markeference number: 835479; MuID:92375706; PMID:1387203
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   edicted <SIG>
#status predicted <MAT>
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A;Residues: 1-123 <TAK>
A;Cross-references: EMBL:M93959; NID:g197572; PIDN:AAA39079.1; PID:g554148
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                                                                                              Length 106;
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C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-12/Domain: signal sequence (fragment) #status predicted <SI(
F;13-123/Product: IQ kappa chain V region (fragment) #status prr
F;28-102/Domain: immunoglobulin homology <IMM>
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                                                                                              DB 2;
                                                                                           77.9%; Score 434; DB 2; 74.5%; Pred. No. 1e-31; ive 17; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F;16-90/Domain: immunoglobulin homology <IMM>
F;57-88/Region: framework 3
F;89-97/Region: complementarity-determining
F;98-106/Region: framework 4
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A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
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DB 2;

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RESULT 9
H1002
Ig light chain V region (clone 165.54) - mouse (fragment)
C; Species: Mus musculus (house mouse)
C; Species: Mus musculus (house mouse)
C; Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jan-2000
C; Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 21-Jan-2000
C; Accession: PH1082
R; Tillman, D.M.; Jou. N.T.; Hill, R.J.; Marion, T.N.
J; Exp. Med. 176, 761-779, 1992
A; Title: Both Ign and IgG anti-DNA antibodies are the products of clonally selective B A; Reference number: PH1082
A; Accession: PH1082
A; Accession: PH1082
A; Residues: nucleic acid sequence not shown
A; Molecule type: mRNA
A; Residues: 1-87 - TIL>
A; Residues: 1-87 - TIL>
A; Residues: 1-87 - TIL>
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: immunoglobulin homology < INMA>
F; 6-80/Domain: immunoglobulin homology < INMA>
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C;Species: Wus musculus (house mouse)
C;Date: 27-Apr.1993 #sequence_revision 18-Nov-1994 #text_change 21-Jan-2000
C;Accession: B43413
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A;Molecule type: mRNA
A;Molecule type: mRNA
A;Rosidues: 1-138 GBUC>
A;Cross-references: GB:M16162; NID:g196893; PIDN:AAA38823.1; PID:g196894
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Superfamily: immunoglobulin V region; immunoglobulin homology
F;Pyvords: heterotetramer; immunoglobulin
F;1-20/Domain: signal sequence #status predicted <MAT>
F;21-138/Product: Ig kappa chain V region #status predicted <MAT>
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    RFSGSGSGTDFTLTINSVETEDFGMYFCQQTNSWPHTFGGGTKLEIK 107
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72.0%; Pred. No. 2.3e-30;
ive 18; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 75.7%; Score 421.5; DB 2 larity 92.0%; Pred. No. 1.1e-30; Conservative 5; Mismatches 1
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Matches 77; Conservative
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Best Local Similarity
Matches 81; Conserv
    61
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C, Species: Mus musculus (house mouse)
C, Date: 03-Mar-1994 #sequence_revision 18-Nov-1994 #text_change 21-Jan-2000
C, Accession: A45722
R, Simpson, J.A.; Chow, J.C.; Baker, J.; Avdalovic, N.; Yuan, S.; Au, D.; Co, M.S.; Vasqu. J. Virol. 67, 489-496, 1993
A, Title: Neutralizing monoclonal antibodies that distinguish three antigenic sites on hu A, Reference number: A45722; MUID: 93100833; PMID: 7677988
A, Accession: A45722
A, Anocession: A45722
A, Anocession: A45722
A, Molecule type: mRNA
A, Residues: 1-107 < SIM>A, Note: sequence extracted from NCBI backbone (NCBIP:120589)
C, Superfamily: immunoglobulin V region; immunoglobulin homology
C, Keywords: glycoprotein
F, 16-90/Domain: immunoglobulin homology < INM>
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C; Species: 22-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 21-Jan-2000
C; Accession. B45722
R; Simpson, J.A.; Chow, J.C.; Baker, J.; Avdalovic, N.; Yuan, S.; Au, D.; Co, M.S.; Vasqu J. Virol. 67, 489-496, 1993
A; Title: Neutraliaring monoclonal antibodies that distinguish three antigenic sites on hu A; Reference number: A45722; MUID:93100833; PMID:7677958
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                                                                                                                                                                                                                                                                                                                  73 RFSGSGSGTDFTLSINSVETEDFGMYFCQQSNSWPHTFGSGTKLEIK 119
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19; Mismatches 12; Indels
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A Status: preliminary; not compared with conceptual translation
A; Status: preliminary; not compared with conceptual translation
A; Molecule type: nucleic acid
A; Residues: 1-107 < SIM>
A; Note: sequence extracted from NCBI backbone (NCBIP:120590)
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: glycoprotain
F;16-90/Domain: immunoglobulin homology < IMM>
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Pred. No. 4e-31;
7; Mismatches 12;
Best Local Similarity 72.9%; Pr
Matches 78; Conservative 17;
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Best Local Similarity 72.0.
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A; Molecule type: mRNA
A; Residues: 1-111 <REI>
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R;Tomiyama, Y:; Brojer, E.; Ruggeri, Z.M.; Shattil, S.J.; Smiltneck, J.; Gorski, J.; Kum J. Biol. Chem. 267, 18085-18092, 1992
J. Biol. Chem. 267, 18085-18092, 1992
A;Title: A molecular model of RGD ligands. Antibody D gene segments that direct specific A;Reference number: A43413; MUID:92388177; PMID:151744
A;Reference number: A43413; MUID:92388177; PMID:1517241
A;Reference number: A43413; MUID:92388177; PMID:1517241
A;Reference preliminary; not compared with conceptual translation
A;Residues: 1-104 < TOM>
A;Residue
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C,Species: Mus musculus (house mouse)
C,Species: Mus musculus (house mouse)
C,Species: Mus musculus (house mouse)
C,Accession: 326346
R,Stark, S.E.; Caton, A.J.
T. Exp. Med. 174, 613-624, 1991
A,Title: Antibodies that are specific for a single amino acid interchange in a protein A,Reference number: 226346
A,Accession: 226346
A,Accession: 226346
A,Accession: Preliminary
A,Accession: Preliminary
A,Accession: Preliminary
A,Accession: Preliminary
A,Accession: 226346
A,Accession: 226346
A,Accession: S26346
A,Accession: S26346
A,Accession: Preliminary
C,Superfamily: mannoglobulin V region; immunoglobulin homology
C,Superfamily: immunoglobulin homology < IMM>
F;14-88/Domain: immunoglobulin homology < IMM>
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519975
Ig kappa chain V region (M-T408) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Botcies: Mus musculus (house mouse)
C;Date: 06-Peb-1995 #sequence_revision 06-Peb-1995 #text_change 21-Jan-2000
C;Accession: 519975
R;Weissenhorr, W.; Riethmueller, G.; Weiss, E.M.; Rieber, E.P.
Submitted to the EMBL Data Library, March 1992
A;Pescription: Structural characterization of CD4 mAb.
A;Reference number: 519963
A;Accession: 519975
A;Status: prebliminary
A;Molecule type: mRNA
A;Residues: 1-103 <WEI>
A;Cross-references: EMBL:X65097; NID:G52296; PIDN:CAA46225.1; PID:G52297
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Best Tocal Similarity 72.18
The TS, Conservative
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Ly Akapa durin precised (man)

C; Species: Homo sapiens (man)

C; Species: Homo sapiens (man)

C; Species: Homo sapiens (man)

C; Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 21-Jan-2000

C; Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 21-Jan-2000

R; Silberstein, L.E.; Litwin, S.; Carmack, C.E.

R; Silberstein, L.E.; Litwin, S.; Carmack, C.E.

J; Exp. Med. 169, 1631-1643, 1389

A; Title: Relationship of variable region genes expressed by a human B cell lymphoma secr

A; Reference number: PLO106; MUD:89235583; PMID:2541221

A; Reference number: PLO106; MUD:89235583; PMID:2541221

A; Recession: PLO106

A; Recession: PLO106

A; Recession: PLO106

A; Residues: 1-144 c&IL.

C; Superfamily: immunoglobulin V region; immunoglobulin

F; 1-20 Domain: signal sequence #status predicted c&IG>
F; 21-115/Domain: dimunoglobulin homology cIMM>
F; 21-115/Domain: dimunoglobulin homology cIMM>
F; 21-100 Domain: manuoglobulin homology cIMM>
F; 21-100 Complementarity-determining 1
F; 70-76/Region: complementarity-determining 3
F; 116-1127/Domain: J region cyRG>
F; 126-144/Domain: C region (fragment) cCRE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ig kappa chain V-J region (103-7B) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 09-Jul-2004
C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 09-Jul-2004
C;Date: 12-Feb-1993 #sequence 0.2 Shirai, T.; Jaton, J.C.; Izui, S.
Eur. J: Immunol. 20, 771-777, 1990
A;Ritler Variable region sequences of pathogenic anti-mouse red blood cell autoantibodie A;Reference number: S09955; MUID:90269328; PMID:2347362
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                                                                                                                                                                                                                                                                                                                                                                   1 QSPATLSLSPGERATLSCRASQSISDYLHWYQQKSHESPRLLIRFVSQSISGIPSRFSGS 60
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C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin F;11-85/Domain: immunoglobulin homology < IMM>
                                                                                                                                                                   Length 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 65.5%; Score 365; DB 2; Length 14
64.5%; Pred. No. 1.8e-25;
tive 15; Mismatches 23; Indels
                                                                                                                                                      Query Match 69.7%; Score 388; DB 2; Length 10
Best Local Similarity 67.6%; Pred. No. 1.2e-27;
Matches 69; Conservative 17; Mismatches 16; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ig kappa chain precursor V-J-C region (LS1) - human (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                66 GSGTDFTLSINTVESEDIADXYCOOSHSWPFTFGSGTNLEVK 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 GSGSDFTLSINSVEPEDVGVYYCQNGHSFPYTFGGGTKLEIK 102
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C;Superfamily: immunoglobulin V region; immunoglobulin
C;Reywords: heterotetramer; immunoglobulin
F;16-94/Domain: immunoglobulin homology <IMM>
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us-09-897-724-3.rpr

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Best Local Similarity 65.5%; Pred. No. 1.7e-25;
Matches 74; Conservative 12; Mismatches 19; Indels 8; Gaps 3;
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| | Description | PO1642 mus musculu | Aar10984 mus muscu | Aar11050 mus muscu | Aar10988 mus muscu | Aar11029 mus muscu | Aar11037 mus muscu | Aar11035 mus muscu | Aar11007 mus muscu | v | 3 hom | homo sa | 3 homo | Q8k1f1 mus musculu | 17 mus | | homo | homo | Q6gmx8 homo sapien | mus m | Q9ul85 homo sapien | Q9ul79 homo sapien | 1660 mus musculu | P01665 mus musculu | a) | ul77 homo sapien | P01664 mus musculu | P01667 mus musculu | 1671 mus musculu | Q9ul78 homo sapien | 80 mus | P01605 homo sapien |
|-----------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------|-------|---------|--------|--------------------|--------|--------|-------|------|--------------------|-------|--------------------|--------------------|------------------|--------------------|-----|------------------|--------------------|--------------------|------------------|--------------------|----------|--------------------|
| | De | P0. | Aa | Aa | Aa | P0. | 8 | 08 | Aa | 0 | Š | Põ | Ö | 80 | 9 | 9 | PO | P0 | 8 | 09ul | P0. | 60 | P0167 | 8 | Aa | P0 |
| SUMMARIES | ΩĪ | | | · | AAR10988 | | AAR1103 | Ċ | | AAR1102 | · | | | | | Q6GMW0 | | | | | _ | _ | | | | | KV3L | | | Q9UL78 | AAR10999 | KV1M_HUMAN |
| | DB | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Length | н | Н | 0 | 101 | 0 | 96 | 105 | 103 | 95 | 234 | 109 | 108 | 114 | 98 | 235 | 129 | 128 | 236 | 108 | 109 | 0 | 111 | 111 | Н | 108 | ч | H | Н | 109 | 110 | 108 |
| ₩ | Query | 4 | 72.5 | 69.4 | 67.0 | 66.4 | 65.5 | 65.5 | ů. | 4. | 64.6 | • | 63.8 | | ж. | 62.6 | ď. | • | 7 | ä | 61,5 | ÷ | ä | ä | ᆏ | ٥. | ö | ö | 60.5 | ö | 60.4 | 0 |
| | Score | 468 | 404 | 386.5 | 373 | 370 | 365 | 365 | 364.5 | 361 | 360 | 356.5 | 356 | 354.5 | 354 | 348.5 | 347.5 | 347 | 347 | 343 | 342.5 | 342 | 342 | 342 | 341 | 338 | 338 | 337 | 337 | 336.5 | 3 | 336 |
| | esult No. | | 7 | ო | 4 | Ŋ | w | 7 | 80 | თ | 10 | 11 | 12 | 13 | 14 | 15 | | | | | 50 | | | | | | | | | | 30 | |

| PO1674 mus musculu Q8k1£3 mus musculu P01670 mus musculu Q72473 homo sapien P01669 mus musculu P01669 mus musculu P01822 homo sapien P18135 homo sapien Q65mx0 homo sapien Q65mx0 homo sapien Q96sas homo sapien | | e) tebrata; Buteleostomi; Muridae; Murinae; Mus. de immunoglobulin V kappa on mechanism."; possible splice junctions ate would code for a al. V-V region L7. y-determining-1. Y-determining-2. y-determining-3. | |
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| KV3V MOUSE OBK1F3 OBK1F3 CV37R MOUSE CV37A KV30_MOUSE KV30_HUMAN KV3M_HUMAN KV3M_HUMAN AAR1T020 BKV3L_HUMAN AAR1T020 GGGWXO CGGWXO OGGWXO | ALIGNMENTS | ins AA. ingdate) con update cata; Vert ognathi; rearrange d mutatio be two p con; Signa con; Signa mentarity cork-1. mentarity illarity. | |
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| 33333333333333333333333333333333333333 | | RESULT 1 KV51 MOUSE ID _KV51 MOUSE ID _LV51 MOUSE DT 21-UUL-11 OX MUSS MUSS MUSS OCC MUSS MUSS MUSS OCC NAT COCLING SERVER RY MEDLINE SERVER RY MEDL | |

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STRAIN=B6 Sle1, TISSUE=Spleen;
STRAIN=B6 Sle1, TISSUE=Spleen;
STRAIN=B6 Sle1, TISSUE=Spleen;
Strain-wide strain stra
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
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                                                                                                                                                                                                                                                                             Score 468; DB 1; Length 115;
Pred. No. 2e-40;
5; Mismatches 1; Indels
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02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment)
Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-WAR-2004 (TrEMBLrel. 27, Created)
02-WAR-2004 (TrEMBLrel. 27, Last sequence update)
02-WAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
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ilarity 93.7%;
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Best Local Similarity 69.54
Matches 73; Conservative
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SEQUENCE
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AAR11050;
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                                                                                                                                                                                                                                                                                                                           1 TPATLSVTPGDSVSLSCRASQSISNNLHWYQQKSHSPRLLIKYASQSISGIPSRFSGSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 LLTQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPSRF
                                                                                                                                                                                                                                                                                             7 SPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPSRFSGSG
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STRAIN=B6.Sle1; TISSUE=Spleen;
SITAIN=B6.Sle1; TISSUE=Spleen;
SITAIN=B6.Sle1; TISSUE=Spleen;
SITAIN=B6.Sle1; TISSUE=Spleen;
SANTINUCLE autocantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
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STRAIN=B6.Sle1; TISSUE-Spleen;
Straing Z, Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan C.;
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
NCBI_TaxID=10090;
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
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                                                                                                                                                                         69.4%; Score 386.5; DB 2; Length 105; 70.3%; Pred. No. 4.7e-32; ive 18; Mismatches 11; Indels 1.
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Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL, AY436890; AAR11050.1; -.
NON TER 1 1 105
NON TER 1 105
SEQUENCE 105 AA; 11377 MW; 9698895429461258 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                         107
                                                                                                                                                                                                                                                                                                                                                                                                                                         61 SGTDFTLSINSVETEDFGMYFCQQSNSW-YTFGGGTKLEIK 100
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O.2-MAR-2004 (TrEMBLrel. 27, Last sequence update)
O.2-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAR11029 PRELIMINARY, PRT; 103 AA. AAR11029, 02-MAR-2004 (TrEMBLrel. 27, Created) 02-MAR-2004 (TrEMBLrel. 27, Last sequence update) 02-MAR-2004 (TrEMBLrel. 27, Last annotation update) ANA immunoglobulin kappa light chain (Fragment) Mus musculus (Mouse).
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NON TER 101 101
SEQUENCE 101 AA; 10918 MW
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Best Local Similarity 70.1%
Marches 68, Conservative
                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                    Best Local Similarity
Matches 71; Conserv
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AAR11007;
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Matches
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                                                                                                                                                                                                                                                             1 DIVIGOSPDTLSVTPGDSVSLSCRASQNIGSNLHWYQQRSHSSPRLLIKSASQSISGIPS
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Mus musculus (Mouse).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
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STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., Mohan "Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436875; AAR11035.1; -.
                                                                                                                                 Length 103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ch 65.5%; Score 365; DB 2; Length 96; I Similarity 69.5%; Pred. No. 7e-30; 66; Conservative 16; Mismatches 13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN=B6.Sle1, TISSUE=Spleen,
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., ?
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X., ?
"Antinuclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436877; AAR11037.1; -.
                                                                                                                              Query Match
66.4%; Score 370; DB 2; Length 10
Best Local Similarity 69.3%; Pred. No. 2.3e-30;
Matches 70; Conservative 14; Mismatches 17; Indels
                                                     103 103
103 AA; 11064 MW; C3D2C4D1B230F426 CRC64;
                                                                                                                                                                                                                                                                                                                                      61 RFSGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFTFGSG 101
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2-MAR-2004 (TrEMBLrel. 27, Created)

02-MAR-2004 (TrEMBLrel. 27, Last sequence update)

02-WAR-2004 (TrEMBLrel. 27, Last annotation update)
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O.S.MAR.2004 (TrEMBLrel. 27, Last sequence update)
O.S.MAR.2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment)
Mus musculus (Mouse)
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EMBL; AY436869; AAR11029.1;

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NON_TER 103 103

SEQUENCE 103 AA; 11064 MM
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AAR11035;
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1 VMIQTPATLSVTPGDRVSLSCRASQSISDYLHWYQQKSHESPRLLIKYASQSISGIPSRF
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                                                                                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus (Mouse).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia; Eutheria; Rodentia, Sciurognathi; Muridae; Murinae; Mus
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                                                                                        Length 105;
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STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X.,
Liang Z., Xie C., Chen C., Kreska D., Hsu K., Zhou J.X.,
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL, AY436847; AAR11007.1; -.
NON_TER 1 1 13
NON_TER 1 13
SEQUENCE 103 AA, 11029 MW; 0D7AB0DE9983992B CRC64;
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105 105
105 AA; 11298 MW; 0BDE221254B167F7 CRC64;
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103 AA; 11029 MW; 0D7AB0DE9983992B CRC64;
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AARI1026; 02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobink kappa light chain (Fragment).
Mis musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
ANA immunoglobulin kappa light chain (Fragment).
                                                                                        65.5%; Score 365; DB 2; L
69.5%; Pred. No. 7.7e-30;
tive 16; Mismatches 13;
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Best Local Similarity 67.00
                                                                                                               l Similarity 69.5%
66; Conservative
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KV3F HUMAN
P01624;
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SEQÜENCE
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                                                                                                                                                                                   SEQUENCE
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Q9UL83;
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HUMAN
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KV3F_HU
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A REDLINE=22388257; PubbMed=12477932;

A Lausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A lischul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A lischul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A phykins R.F., Jordan H., Moore T., Max S.I., Warg J., Hashe F.,

Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Rapleton M., Soares M.B., Bonaldo M.F., Carninci P., Prange C.,

Brownstein M.J., Usdin T.B., Tochiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Brownstein M.J., Wokin P.J., McKernan K.J., Male M., Gay L.J., Hulyk S.M.,

A Richards S., Worley K.C., Hale S., Gardar A.M., Gay L.J., Hulyk S.W.,

A Nilalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Richards S., Worley W.C., Hale S., Garchenko Y., Bouffard G.G.,

A Pahey J., Helton B., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shavchenko Y., Bouffard G.G.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

R Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

A Shalska U., Marra M.A.,

C. Shach S., Schmerch A., Schmutz J., Myers R.M., Schein J.E.,

A Dones S.J., Marra M.A.,

T. "Generation and initial analysis of more than 15,000 full-length human
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                                                                                                            3 LLTQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPSRF
                                                                  Gaps
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64.6%; Score 360; DB 2; Length 234;
larity 62.6%; Pred. No. 6.3e-29;
Conservative 18; Mismatches 22; Indels
                                    Length 95;
                                                               13; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Strausberg R.;
Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; BC030813; AAH30813.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ll protein.
234 AA; 25530 MW; 6316E8DEF8D132F8 CRC64;
95
10329 MW; FF70654DBD551510 CRC64;
                                                                                                                                                                                                                                                                  Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sequences.";
ad. Sci. U.S.A. 99:16899-16903(2002)
                                      64.8%; Score 361; DB 2;
69.5%; Pred. No. 1.8e-29;
ive 16; Mismatches 13;
                                                                                                                                                            SGSGSGSDFTLSINSVEPEDVGVYYCONGHSFPPT 95
                                                                                                                                              SGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFT 97
                                                                                                                                                                                                                                          234 AA.
                                                                                                                                                                                                                                          PRT;
                                                                                                                                                                                                                                                                  02-MAR-2004 (TrEMBLrel. 27, 02-MAR-2004 (TrEMBLrel. 27, 02-MAR-2004 (TrEMBLrel. 27,
                                                                 Conservative
                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                                                                                                    Hypothetical protein.
Homo sapiens (Human).
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Matches 67; Conserv
95
95 AA;
                                                  Similarity
66; Conserv
                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
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NON TER
SEQUENCE
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                                                                                                                                                                                                                                                       AAH30813;
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                                       Query Match
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                                                     Local
                                                                  Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 DILLIQSPAILSVSPGERVSFSCRASQFVGSS-IHWYQQRINGSPRLLIKYASESMSGIP
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                         Eukaryota, Metazoā, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ARFSGSGSGTEFTLIISSLOSEDFAVYYCQQYNNWPPTFGQGTRVEIK 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length 109;
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BLOWEDLINE=98277139; PubMed=9614934;
WU X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
Young D.C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Myosin-reactive immunoglobulin light chain variable region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               64.0%; Score 356.5; DB 1; Length 62.0%; Pred. No. 6.1e-29; ive 21; Mismatches 19; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       109 AA; 11922 MW; 62821DDC6A8ABA86 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Clin. Immunol. Immunopathol. 87:184-192(1998)
EMBL; AF035031; AAD56267.1; -.
PIR; B30609; B30609.
                                     21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
19 kappa chain V-III region POM.
Homo sapiens (Human).
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109
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PRT;
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67; Conservative
STANDARD;
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MEDINE-229825):

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MEDINE-229825):

MILL Feingold E.A., Grouse L.H., Derge J.G.,

MILL S., Zeeberg B., Buerow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Zeeberg B., Buerow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Zeeberg B., Buerow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hisleh F.,

A blatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A blatchenko L., Marusina K., Parmer A.A., Rubin G.M., Hong L.,

Stapleton M., Saares M.B., Bonaldo M.F., Casavant T.L., Scheez T.E.,

Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Millahy S.J.,

Rochards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Hilalon D.K., Muzny D.W., Sodergren B.J., Lu X., Gibbs R.A.,

A Hilalon D.K., Muzny D.W., Sodergren B.D., Dickson M.G.,

A hilting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,

T. "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 PAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPSRFSGSGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
                                                                                                                            Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
                                                                                                                                                                                                                                                       Zhou J.X., Mohan C.
                                                                                                                                                                                                                                                                                                                                                                                                                    63.6%; Score 354; DB 2; Length 98; 68.4%; Pred. No. 9.8e-29; ive 13; Mismatches 18; Indels
                                                                                                                                                                                            [1]
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAIN=B6.Sle1; TISSUE=Spleen;
Liang Z., Xie C., Chen C., Kreeka D., Hsu K., Zhou J.X.,
Liang Z., Xie C., Chen C., Kreeka D., Hsu K., Zhou J.X.,
Shumituclear autoantibodies from B6.Sle1 mice.";
Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AY436887; AAR11047.1;
                                                                                                                                                                                                                                                                                                                                                                          98 AA; 10636 MW; 6850A3AB53C66D39 CRC64;
    AAR11047;

2-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last sennotation update)
ANA immunoglobilin kappa light chain (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        68 GIDFILSINIVESEDIADYYCOOSHSWPFIFGSGINLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 GSYFTLSINSVEPEDVGVYYCQNGHSFPPTFGGGTKLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      235
                                                                                                                                                                                                                                                                                                                                                                                                                                                              67; Conservative
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                                                                                                           Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hypothetical protein. Homo sapiens (Human).
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SEQUENCE FROM N.A.
TISSUE=Spleen;
Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
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                                                                                                                                                                      NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                     NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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Q6GMW0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 DILLIQSPAILSVSPGERVSFSCRASQFVGSS-IHWYQQRINGSPRLLIKYASESMSGIP
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01-0CT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2004 (TrEMBLrel. 25, Last annotation update)
Anti-VIPase light chain variable region (Fragment).
Mus musculus (Mouse).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalla; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN-BALB/C, TISSUE-Hyperimmunized spleen;
STRAIN-BALB/C, TISSUE-Hyperimmunized spleen;
Zhou Y.-X., Taguchi H., Planque S., Karle S., Nishiyama Y., Paul Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AF516284; AAM64202.1;
FIR; PHIOS8; PHIOS8.
HSSP; PO1837; 25C8.
InterPro; IPR007110; Ig-like.
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Pred. No. 1e-28;
0; Mismatches 21; Indels 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60 SRFSGSGSGTDFTLSINTVESEDIADYYCOOSHSWPFTFGSGTNLEVK 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                              61 RFSGSGSGTDFTLSINTVESEDIADYYCQQSHSWPFTFGSGTNLEVK 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 108;
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                                                                                                                                                                                                                                                    108 AA; 11834 MW; 9F9C5A92EBA96EEA CRC64;
                                                                                                                                                                                                                                                                                          63.9%; Score 356; DB 2;
60.7%; Pred. No. 6.8e-29;
ive 21; Mismatches 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ź
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   63.6%; Scor
61.1%; Pred
PIR; C30609; C30609.
PIR; D30609; D30609.
PIR; S34099; S34098.
PIR; S34099; S34099.
HSSP; P01625; ILVE.
INCEPPO: IPRO07110; Ig-like.
INCEPPO: IPRO07110; Ig-like.
Fam; PP00047; ig; I.
PROSITE; PS50835; IG_LIKE; I.
NON TER
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SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity ____nes 66; Conservative
                                                                                                                                                                                                                                                                                                                                     65, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
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114 AA;
                                                                                                                                                                                                                                                                                                                  Local Similarity
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SEQUENCE FROM N.A.
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NON TER
SEQUENCE
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SO DRAPACO OCC SO DE TANDE DE

Best Loc Matches

임 ð RESULT 14 AAR11047 ID AAR11

Best Loc Matches

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1 DILLIQSPAILSVSPGERVSFSCRASQFVGSSIHWYQQRTNGSPRLLIKYASESMSGIPS 60
                                                                                                                                                                                                                                                                                                                                                                                               Query Match 62.6%; Score 348.5; DB 2; Length 235;
Best Local Similarity 61.1%; Pred. No. 9.8e-28;
Matches 66; Conservative 20; Mismatches 21; Indels 1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                               61 RFSGSGSGTDFTLSINTVESEDIADYYCQQSHSW-PFTFGSGTNLEVK 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     81 RFSGSGSGTEFTLSISSLQSEDFAVYFCQQYNDWLLYTFGQGTKLBIK 128
E Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

R InterPro; IPR003599; Ig.

InterPro; IPR00310; Ig-like.

R InterPro; IPR003597; Ig-d.

R InterPro; IPR003597; Ig-d.

R InterPro; IPR003596; Ig-W.

R InterPro; IPR003596; Ig-W.

R Pfam; PF0047; ig; 2.

R SMART; SM00409; IG-2.

R SMART; SM00409; IG-2.

R SMART; SM00409; IG-2.

R PROSITE; PS0290; IG-MHC; UNKNOWN_1.

R PROSITE; PS0290; IG-MHC; UNKNOWN_1.

HYPOCHELICAL PROCES.

SEQUENCE 235 AA; 25765 MW; 4360236B6D4133F5 CRC64;
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Search completed: December 15, 2004, 17:20:53 Job time : 119.836 secs

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Variable Murine Mu

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An anti-TNF chimeric antibody may be administered for treating TNF-alpha mediated Crohn's disease in a human. The anti-TNF chimeric antibody competitively inhibits binding of TNF to monoclonal antibody cA2. The anti-TNF antibody does not bind to one or more epitopes in amino acids 11.3, 37-42, 49-57 or 155-157 of hrNF, but does bind to one or more epitopes included in amino acids between 87-108 or both 87-108 and 59-80 of hNNF, (Updated on 25-MAR-2003 to correct PF field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treatment of Crohn's disease - by administering humanised cA2 antibody specific for tumour necrosis factor.
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92US-00853606.
92US-00943852.
93US-00010406.
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 WPI; 1997-414547/38.
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Sequence 119 AA;
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                                                                                                            HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
                                                                                                                                 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
                                                                                                                                                                                                                                                                            Tumour necrosis factor; human; hTNF; rheumatoid arthritis; malignancy; anti-TNF chimeric anti-Dody; inhibitor; therapy; diagnosis; infection; chronic inflammatory disease; autoimmune disease; heavy chain; neurodegenerative disease; variable region.
                                                                              EVKLEESGGGJVQPGGSMKLSCVASGFIFSNHWMWWWRQSPEKGJEWVAEIRSKSINSAT
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                    100.0%; Score 636; DB 2; 100.0%; Pred. No. 1.3e-49;
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                                          0; Mismatches
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UNIV NEW YORK MEDICAL CENT.
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92US-00853606.
93US-00010406.
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94US-00192091.
94US-00192093.
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Matches 119, Conservative
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invention for alleviating symptoms or pathologies involving TNF, such as bacterial, viral or parasitic infections, chronic inflammatory diseases, autoimmune diseases, malignancies and/or neurodegenerative diseases
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TNF-alpha mediated disease; anti-TNF chimeric antibody;
monoclonal antibody cA2; autoimmune disease; inflammatory disease;
neurodegenerative disorder; cerebellar cortical degeneration;
multiple system degeneration; multi-system disorder; Senile Dementia;
amyotrophic lateral sclerosis, spinal muscular atrophy;
Alzheimer's disease; Down's Syndrome; Diffuse Lewy body disease;
Wernicke-Koraskoff syndrome; chronic alcoholism;
lymphoma Creutzfeldt-Jakob disease;
sub-acute sclerolising panencephalitis; Hallerrorden-Spatz disease;
dementia pugilistica; leukemia.
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Pred. No. 1.3e-49;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAY23244 standard; protein; 119
                                                                                                                                                                                       100.0%;
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92US-00943852.
93US-00010406.
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) UNIV NEW YORK STATE.
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                                                                                                                                                                                                                     Local Similarity 100.
nes 119; Conservative
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N-PSDB; AAX81706.
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chimeric antibodies are useful for treating and/or diagnosing TNF-alpha mediated diseases such as immune and autoimmune pathologies e.g. rheumatoid arthritis and especially systemic lipus expthematosus (SLE), thyroidosis, graft versus host disease, scleroderma, diabetes mellitus, and Graves' disease, inflammatory diseases (other than septic shock), neurodegenerative disorders; cerebellar cortical degenerations, multiple systems degenerations (e.g. Mencel, Dejerine-Thomas, Sh-Drager, and Machado-Joseph, Refsum's disease, abetalipoprotemia, ataxia, telangisctasia, mitcohondrial multi-system disorder, amyotrophic lateral sclerosis, infantile and juvenile spinal muscular atrophy, Alzheimer's disease, Down's Syndrome im middle age, Diffuse Lewy body disease, Demetria of Lewy body type, Wernicke-Koraakoff syndrome, chronic alcoholism, Creutzfeldt-Jakob disease, sub-acute sclerolising panencephalitis, Hallerroaden-Gases, dementia pugilistica, lymphomas, other TNF-secreting tumors or alcohol-induced
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human, tumour necrosis factor-alpha; TNF-alpha; chimeric antibody, immunoglobulin; inflammation; cancer; cachexia; sepsis; endotoxic shock; iffection; chronic inflammatory disease; auto-immune disease; malignancy; neurodegenerative disease; chon's disease; rheumatoid arthritis; A2; vascular endothelial growth factor; VEGF, VEGF-mediated disease.
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                                                                                                                                                                                                                                                                                                    Length 119;
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                                                                                                                                                                                                                                                                                                    100.0%; Score 636; DB 2; 100.0%; Pred. No. 1.3e-49;
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92US-00853606.
93US-0001406.
93US-00013413.
94US-00192102.
94US-00192861.
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94US-00192861.
94US-00192861.
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Matches 119, Conservative
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                                                                                                                                                                                                                                                                                                                   Similarity
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Chimeric.
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29-JAN-1993;
02-FEB-1993;
04-FEB-1994;
04-FEB-1994;
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18-OCT-1994;
11-DEC-1995;
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The present sequence represents the heavy chain variable region of a chimeric human-murine A2 antibody (GA2) which binds to epitopes of human cumour necrosis factor (TWP)-alpha. Chimeric antibodises of the invention comprise at least part of a human immunoglobulin constant region and at least part of a human immunoglobulin variable region. The chimeric antibodies are useful in vivo diagnosis and therapy of TWF-alpha-mediated pathologies and conditions. They can also neutralize human TWF-alpha-mediated pathologies and conditions. This is useful as TWF is known to be under physiological conditions. This is useful as TWF is known to be involved in e.g. pro-inflammatory actions, wasting associated with cancer and other diseases (cachexia), gram-negative sepsis and endotoxic shock. Antibodies can be used to treat and/or diagnose bacterial, parasitic or viral infections, chronic inflammatory diseases, auto-immune diseases, malignancies and neurodegenerative diseases (such as Grobn's disease and rheumatoid arthritis). As inhibition or antagonism of TWF also decreases the expression of vascular endothelial growth factor (VEGF), the autibodies are also useful to treat UEGF-mediated diseases. (Updated on 11-SEP-2003 to standardise OS field)
                                                                                               New chimeric antibody binding an epitope specific for human tumor necrosis factor alpha useful in treatment and diagnosis of tumor necrosis factor alpha related conditions e.g. Crohn's disease.
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Siegel
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Knight D,
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100.0%; Pred. No. 1.3e-49;
ive 0; Mismatches 0;
Ghrayeb J,
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                                                                                                                                                                              16B; 93pp; English
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92US-00853606.
92US-00943852.
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Vilcek J, Daddona P,
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Best Local Similarity 100.
Matches 119; Conservative
                                        2001-615872/71.
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18-MAR-1992;
11-SEP-1992;
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  Le J,
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                                                                                                                                                                                                                                                      The invention relates to chimeric anti-tumour necrosis factor (TNF)
antibodies. These chimeric antibodies comprises two light chains and two
heavy chains, each of the chains comprising at least part of a human
comparison to the chains comprising at least part of a non-human
condition (Ig) constant region and at least part of a non-human
correctly there the antibodies are capable of binding an epitope
specific for human Thr-alpha. Anti-TNF antibodies or peptides may be used
in research, therapeutic and diagnostic methods, specifically for
diagnosing and/or treating animals or human having pathologies or
conditions associated with the presence of a substance reactive with an
anti-TNF antibody. The related pathologies include acute and chronic
immune and autoimmune disorders (e.g. systemic lupus erythematosus,
rheumatoid arthritis), infections (e.g. bacterial, viral fungal or,
parasitic infections), inflammatory diseases (e.g. uncrative colitis,
crohn's pathology), neurodegenerative diseases (e.g. multiple sclerosis,
chorae or semile chorea, disorders of the basal ganglia or cerebellar
disorders), malignant pathologies (e.g. leukaemia, lymphomas), or alcohol
cinduced hepatitis. The anti-TNF peptide or antibodies may also
confined hepatitis. The anti-TNF peptide or antibodies may also
the present sequence is mouse heavy chain variable region of chimeric A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; tumour necrosis factor; TNF; anti-TNF antibody; cA2; infection; sepsis; cachexia; acquired immunodeficiency syndrome; AIDS; septic shock; chronic inflammatory disease; disseminated intravascular coagulation; atherosclerosis; ulcerative colitis; chronic inflammatory bowel disease; autoimmune disease; theumatoid arthritis; diabetes mellitus; graft versus host disease; drave's disease; alcohol-induced hepatitis; demyelinating disease; according arthritis; dispetse mellitus; demyelinating disease; accute transverse myelitis; vascular endothelial growth factor-mediated disease;
                                                                                                                                                                Chimeric anti-tumor necrosis factor (TNF) antibodies useful for diagnosing or treating TNF-associated pathologies or conditions, e.g. chronic and acute immune, autoimmune disorders, and microbial infections.
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                                                                                        Siegel SA;
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                                                                                        Knight D,
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                                                                                        Ghrayeb J,
                                          (UYNY-) UNIV NEW YORK MEDICAL CENT. (CENZ.) CENTOCOR INC.
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              93US-00013413.
                                                                                         Dadonna P,
93US-00010406
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Best Local Similarity 100.
                                                                                                                     2001-595467/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anti-TNF antibody
                                                                                         Vilcek J,
                                                                                                                     WPI; 2001-595467/
N-PSDB; AAD18193.
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29-JAN-1993;
              02-FEB-1993;
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The present sequence represents the cloned heavy chain variable region of antibody cA2, which is directed against tumour necrosis factor (TNF). The specification describes anti-TNF antibodies, such as cA2. The anti-TNF antibody is useful for alleviating symptoms or pathologies involving TNF, such as bacterial, viral or parasitic infections (e.g. sepsis, cachexia, acquired immunodeficiency syndrome (AIDS) and septic shock), chronic inflammatory diseases (disseminated intravascular coagulation, atherosclerosis, ulcerative colitis and chronic inflammatory bowel diseases, autoimmune diseases (e.g. rheumatoid antihritis, diabetes melliuus, graft versus host disease and Grave's diseases), alcohol-induced hepatitis, malignancies and/or neurodegenerative diseases (e.g. multiple soflexosis, demyellnating diseases and acute transverse myelitis). The anti-TNP antibody is also useful in the treatment of vascular endothelial
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New nucleic acid molecule encoding heavy or light chain variable regions of anti-tumor necrosis factor antibody, useful for alleviating symptoms or pathologies involving tumor necrosis factor.
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100.0%; Pred. No. 1.3e-49;
.ive 0; Mismatches 0; Indels
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                                                                                                                                           91US-00670827.
92US-0085866.
92US-00943852
93US-0010406.
93US-00132093
94US-00192102.
94US-00192102.
94US-00192102.
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                                                                                              98US-00133119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-588928/66.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; AAH78593.
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US6277969-B1
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                                                                                              12-AUG-1998;
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11-DEC-1995;
                                               21-AUG-2001
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29-JAN-1993
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Best Local S
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Matches
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Human-murine chimeric anti-hTNFalpha cA2 heavy chain variable region.

anti-TNF peptide; neurodegenerative disease; multiple sclerosis; acquired immunodeficiency syndrome; AIDS; demyelinating disease; acquired immunodeficiency syndrome; AIDS; demyelinating disease; acute transverse myelitis; extrapyramidal disorder; lession; cerebellar disorder; basal ganglia disorder; Huntington's cholera; movement disorder; senile cholera; Parkinson's disease; spinal ataxia; progressive supranuclear palsy; spinocerebellar degeneration; systemic disorder; neurogenic muscular atrophy; bown's Syndrome; amyotrophic lateral sclerosis; Alzheimer's disease; chronic alcoholism; creuzfeld-Jakob disease; Rallervorden-Spatz disease; neurobeolism; notropic; neuroprotective; antiparkinsonian; human TNPalpha; hTNPalpha; antihuman TNF 1gG1 antibody; 1gG1 kappa; mutein. anti-TNF TNFalpha; Human; tumour necrosis factor-alpha;

Homo sapiens Mus sp. Synthetic. Chimeric. Mus

US2002106372-A1.

08-AUG-2002

18-JAN-2001; 2001US-00766535

91US-00670827. 92US-0085366. 92US-00913852 93US-0010406. 93US-0013413. 94US-00192102. 94US-00192861. 94US-00192861. 95US-003247799. 02-FEB-1993 18-MAR-1991 29-JAN-1993

98US-00133119 04-FEB-1994; 04-FEB-1994; 04-FEB-1994; 12-AUG-1998; 18-OCT-1994 11-DEC-1995

(CENZ) CENTOCOR INC.

ŝ Siegel Ď Knight Ghrayeb J, Vilcek J, Daddona P, Le J,

WPI; 2002-706216/76. N-PSDB; ABS54257 Treating a neurodegenerative disease, especially multiple sclerosis, comprises administering an anti-tumor necrosis factor monoclonal antibody or its fragment

Disclosure; Fig 16B; 95pp; English.

The present invention relates to anti-tumour necrosis factor (TNF) antibodies, and anti-TNF peptides, which are specific for human tumour necrosis factor-alpha (TNFalpha). Methods of producing and using the anti-TNF antibodies and anti-TNF peptides are also disclosed. The anti-TNF antibodies and mathods of the invention are useful for treating human neurodegenerative diseases (e.g. multiple sclerosis, captide, and munched interpretative diseases (e.g. multiple sclerosis, demyelinating disease, acute transverse myelitis, an extrapyramidal demyelinating disease, acute transverse myelitis, an extrapyramidal disorder of the basal ganglia, a hyperkinetic movement disorder, a lesion of the corticospinal system, a disorder of the basal ganglia, a hyperkinetic movement disorder, parkinson's disease, progressive hypokinetic movement disorder, Parkinson's disease, progressive supranuclear palsy, a structural lesion of the carbellum, a spinocerbellar degeneration, spinal ataxia, Friedreich's ataxia, a cerbellar cortical degeneration, a multiple system disorder, danyelinating core disorder, acute transverse myelitisa, a disorder of the motor unit, a neurogenic muscular atrophy, anterior horn cell degeneration, amyerrophic lateral sclerosis, infantile spinal muscular atrophy, juvenile spinal muscular atrophy, Alzheimer's disease, bown's Syndrome, a diffuse Lewy

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body disease, senile dementia of Lewy body type, Wernicke-Korsakoff syndrome, chronic alcoholism, Creutzfeldt-Jakob disease, subacute sclerosing panencephalitis, Hallervorden-Spatz disease, or dementia puglilistica). The present sequence represents human-murine chimeric antihuman TNPalpha (hTNPalpha) chimeric A2 (GA2) heavy chain variable region. The cA2 monocloneal anti-TNF antibody consists of mouse (from female BALB/c mice) antihuman TNF 1961 antibody (designated A2), and the constant regions of human 1961 kappa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumour necrosis factor; monoclonal antibody; chimeric antibody; antibody;
myelodysplastic syndrome; cytostatic; vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Treating myelodysplastic syndrome in human, involves administering tumor necrosis factor-inhibiting amount of an anti-TNF antibody, monoclonal antibody CA2 or anti-TNF chimeric antibody
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                                                                                                                                                                                                                                                                                             61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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                                                                                                                                                                                                                   1 EVKLEESGGGLVOPGGSMKLSCVASGFIFSNHWMNWVROSPEKGLEWVAEIRSKSINSAT
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                                                                                                                                                             Length 119;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Murine anti-TNF antibody heavy chain variable region.
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                                                                                                                                                           100.0%; Score 636; DB 5;
100.0%; Pred. No. 1.3e-49;
ive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                               ABP54871 standard; protein; 119
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920S-00853606.
920S-0081852.
930S-00010418.
940S-00192102.
940S-00192102.
940S-00192102.
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2001US-00756398.
2001US-00927703.
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                                                                                                                                                                                        Conservative
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                                                                                                                                 Sequence 119 AA;
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Matches 119;
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18-MAR-1992;
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04-FEB-1994
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16B; 97pp; English.

Fig

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region (VH) of an anti-human tumour necrosis factor (TNF) monoclonal antibody (MAb) produced by murine hybridoma line A2. A claimed method of treating a myelodysplastic syndrome in a human comprises administering an anti-TNF chimeric antibody comprising the murine A2 VH and VL (see ABP54870) regions and an IgG1 human constant region. The anti-TNF peptides and antibodies of the invention can be used in the treatment of TNF-related pathologies of the invention can be used in the treatment of pathologies, infeatmentory diseases, neurodegenerative diseases, malignant pathologies, and alcohol-induced hepatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treating psoriasis in humans comprises administering anti-tumor necrosis factor (TNF) chimeric antibody cA2, or anti-TNF chimeric antibody which competitively inhibits binding of TNF to the antibody cA2.
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                                                                                                                                                                                                                                                       1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMWWRQSPEKGLEWVAEIRSKSINSAT
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                                                                                                                                                                      100.0%; Score 636; DB 5; 100.0%; Pred. No. 1.3e-49;
                                                                                                                                                                                                   Mismatches
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93US-00013413
94US-00192102
94US-00192861
95US-00324799
95US-00333119
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92US-00853606.
92US-00943852.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chimeric antibody, cA2, VH.
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(first entry)
                                                                                                                                                                                                   Conservative
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N-PSDB; AAI72610.
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Best Local Similarity
Matches 119; Conserv
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                                                                                                                                            Sequence 119 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-AUG-2001;
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10-JUN-2002
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04-FEB-1994,
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11-SEP-1992
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AAB47942
    8888888888888
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The sequences given in AAB47941-42 show the light and heavy chain variable regions of the chimeric antibody, CA2. CA2 is an anti-tumour necrosis factor (TMF) antibody. Anti-human TMF chimeric antibodies, may be used for treating psoriasis in humans. Psoriasis may be treated by administering: (a) anti-TMF chimeric antibody (Ab) which competitively inhibite binding of TMF to monoclonal chimeric Ab CA2; or (b) anti-TMF chimeric antibody (Ab) which competitively chimeric Ab comprising a human immunoglobulin (1g) Gl constant region and a non-human variable region, which binds to an epitope included in amino a citibody has potent TMP-inhibiting and/or neutralizing activity. Levels of CA2 as low as 125 ng/ml completely abolished the toxic activity of represent the cA2 as low as 125 ng/ml completely abolished the toxic activity of reference of the parent murine A2 monoclonal antibody. (Updated on 29-AUG-2003 to standardise OS field)
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92US-00853606.
92US-00043852.
93US-00013413.
94US-00192102.
94US-00192861.
94US-00520674.
94US-00570674.
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                                                                                                                                                                                                                                                                                                              Best Local Similarity 100.
Matches 119; Conservative
                                                                                                                                                                                                                                                                                                            Similarity
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                                                                                                                                                                                                                                                                 Sequence 119 AA;
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Best Local 8
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                                           Le J,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tumour necrosis factor, TNF, antibacterial; immunosuppressive, tumour necrosis factor inhibitor; bacterial infection; cA2; sepsis; endcthelial damage; vascular damage; severe hypotension; disseminated intravascular coaqulation; shock; inflammation; bacteraemia; chimeric A2 antibody; cA2 heavy chain variable region.
                                                                                             The invention relates to an isolated nucleic acid molecule that encodes a tumour necrosis factor-alpha (TNF-alpha) specific antibody. The nucleic acid molecule is useful in diagnosing and/or treating TNF-alpha-mediated pathologies and conditions, such as bacterial, viral or parasitic lifections, chronic inflammatory diseases (e.g. Theumatoric) arthritis, crown's disease or ulcerative colitis), autoimmune diseases (e.g. systemic lupus erythematosus, diabetes mellitus or Grave's disease), andignancies, vascular diseases and/or neurodegenrative diseases (e.g. Alzheimer's disease) and in research purposes. The present sequence represents the amino acid sequence of the mouse TNF-alpha antibody CA2
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                                                                                                                                                                                                                                                                                                   1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT
                                                                                                                                                                                                                                                                                                                     1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWNNWVRQSPEKGLEWVAEIRSKSINSAT
                             New nucleic acid molecule for diagnosing or treating tumor necrosis factor alpha-mediated diseases, e.g. infections, chronic inflammatory diseases, autoimmune diseases, cancer or neurodegenerative diseases.
                                                                                                                                                                                                                                                                               Gaps
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                                                                          Claim 4; Fig 16B; 100pp; English.
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92US-00853606.
92US-00943852.
93US-00010406.
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94US-00192861.
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95US-00192861.
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                                                                                                                                                                                                             heavy chain variable region
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        N-PSDB; ACA61153
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                                                                                                                                                                                                                                  Seguence 119 AA;
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02-FEB-1993;
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18-OCT-1994;
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Mouse; TNFalpha; humanised antibody; tumour necrosis factor-alpha;
antigen; constant region; heavy chain; light chain;
antigen indiding region; complementarity determining region; CDR; A2;
W framework region; cytokine; TNF; pro-inflammatory; tissue injury;
procoagulant; vascular endothelial cell; neutrophil; lymphocyte;
platelet activating factor; macrophage; immune disorder; scleroderma;
w autoimmune disorder; rheumatoid arthritis; thyroidosis; diabetes;
m inflammatory disease; Grave's disease; infection; AIDS;
m inflammatory disease; sarcoidosis; chronic inflammatory bowel disease;
w ulcerative colitis; Crohn's disease; atherosclerosis; dementia;
w neurodegenerative disease; multiple sclerosis; Parkinson's disease;
w psoriasis; diodenal ulcer; anglogenesis; female reproductive tract;
w neuroprotective; nootropic; cytostatic; gynecological.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes a method of treating bacterial infection in a human comprising administering to the human a tumour necrosis factor (TNF)-inhibiting amount of an anti-TNF chimeric antibody, which competitively inhibits binding of TNF to monoclonal antibody cA2. The methods are useful for treating bacterial infections, a pathology associated with a sepsis (e.g. endothalial damage, vascular damage, disseminated intravascular coaqulation or severe hypotension), shock resulting from bacterial infection, or inflammatory reaction resulting from bacteraemia. The anti-TNF antibodies and peptides in the form of pharmacceutical and/or diagnostic compounds are useful for diagnosing and treating TNF-related pathologies. This is the amino acid sequence of the chimeric A2 (CA2) antibody heavy chain variable region
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                                                                                                                                                                                                                                                                                                                                             Treating bacterial infection in a human comprises administering to the human a tumor necrosis factor (TNF)-inhibiting amount of an anti-TNF chimeric antibody, which competitively inhibits binding of TNF to
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                                                                                                                                          Siegel
                                                                                                                                      Knight D,
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                                                                                                                                      Ghrayeb J,
(UYNY-) UNIV NEW YORK MEDICAL CENT. (CENZ ) CENTOCOR INC.
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                                                                                                                                          Daddona P,
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Best Local Similarity 100.
Matches 119, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           monoclonal antibody cA2
                                                                                                                                                                                                                        WPI; 2003-174129/17.
N-PSDB; ABX14787.
                                                                                                                                               Vilcek J,
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Tregment, that selectively binds human tumour necrosis factor-alpha (TNFalpha), comprising an antigen binding region of non-human origin and at least a portion of an antigen binding region of non-human origin and at least a portion of an antigen binding region of non-human origin and an antigen binding region, comprising complementarity determining regions (CDRs) derived from an antibody or light chain of human origin and an antigen binding region, comprising complementarity determining regions (CDRs) derived from an antibody or light chain of human origin. Also disclosed is an expression vector comprising a fusament origin. Also disclosed is an expression vector comprising a fusament. Also disclosed is an expression vector comprising a fragment, and the method for preparing it. The cytokine TNF causes proceeding a cells which result in tissue injury, such as inducing proceagulant ectivity on vascular endothelial cells, increasing the endothelial cells. The methods and such and lymphocytes and stimulating the release of platelet activating factor from macrophages, neutrophils and vascular endothelial cells. The methods are useful for the diagnosis and artibody, and antiger-binding fragment, and manufacturing a polypeptide. The methods and compositions are useful for the diagnosis and artibody, and antiger-binding fragment, and manufacturing a polypeptide. The methods and compositions are also useful for the diagnosis and artibody, and antiger-binding fragment, also as cute and chronic inflammatory bowel disease, ulcerative disease, (artiful edisease, dementia and Alzheimer's disease), cancer, ensured angiogenesis of the female reproductive tract. The sequence presented is the method angiogenesis of the female reproductive tract. The sequence presented is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention discloses a new humanised antibody, or its antigen-binding
                                                                                                                                                                                                                                                                                                                                       New humanized anti-TNF antibody with an antigen binding region, useful for diagnosing and treating TNF-related pathologies, such as autoimmune disorders, bacterial and viral infections, inflammatory diseases, AIDS
                                                                                                                                                                                                                       Siegel S;
                                                                                                                                                                                                                       Ghrayeb J, Knight D,
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                                                                    08-JAN-2001; 2001US-00756161.
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                                                                                                                      98US-00133119
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61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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100.0%; Score 636; DB 6; Length 119; 100.0%; Pred. No. 1.3e-49; ive 0; Mismatches 0; Indels
Query Match 100.
Best Local Similarity 100.
Matches 119; Conservative
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ABG75774 standard; protein; 119

(first entry)

29-APR-2003

ABG75774;

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TNF inhibitor; antylosis; anti-TNF antibody; CA2; immunoglobulin G1; GG; TNF; heavy chain; light chain; antigen binding; CDR; complementarity determining region; framework region; CYCokine; pro-inflammatory; tissue injury; procoagulant; vascular endothelial cell; pro-inflammatory; blatelet activating factor; macrophage; immune disorder; platelet activating factor; macrophage; immune disorder; autoimmune disorder; rheumatoid arthritis; thyroidosis; graft versues host disease; seleroderma; diabetes; Grave's disease; chronic inflammatory bowel disease; asrcoidosis; chronic inflammatory bowel disease; ulcerative colitis; Crohn's disease; atherosclerosis; neurodegenerative disease; multiple sclerosis; parkinson's disease; dementia Alzheimer's disease; cancer; hepatitis; coular neovascularisation; psoriasis; duodenal ulcer; angiogenesis; female reproductive tract; haemodynamic; febrile; allergic episode.
                        Mouse; tumour necrosis factor alpha; TNFalpha; rheumatoid arthritis;
cA2 variable heavy chain of the INFalpha antibody
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920S-00853606.
930S-00010406.
930S-00013413.
940S-00132093.
940S-00192861.
940S-00192861.
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950S-00570674.
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08-JAN-2001;
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The invention discloses a method for treating ankylosis, by administering a tumour necrosis factor (TFE)-inhibiting anti-TFE chimeric antibody at tumour necrosis factor (TFE)-inhibiting anti-TFE chimeric antibody antibody call, where the antibody oppures an immunoglobulin (Ig) diantibody call, where the antibody comprises an immunoglobulin (Ig) diantibody call, where the antibody oppured in the antibody of human TFE. The antibody consists of a constant region heavy or light chain of human origin and antibody of murine origin that binds to human origin and a framework region derived from a heavy or light chain of human origin. The Cyckine TNF causes pro-inflammatory continuous which result in tissue injury, such as inducing processulant activity on vascular endothelial cells, increasing the adherence of certivity on vascular endothelial cells, increasing the adherence of certivity and lymphocytes and stimulating the release of platelet cells. The methods and compositions are also useful for the diagnosis and compositions are also useful for the diagnosis and compositions are also useful for the diagnosis and chronic immune and autoimmune disorders (rheumatoid arthritis) chronic immune and autoimmune disorders (rheumatoid arthritis) chronic inflammatory diseases (arcondosis, praft versus host disease, scleroderma, diabetes and Grave's cliseases (sarcoldosis, chronic inflammatory) neurodegenerative diseases (cultis, crohn's disease and atherosclerosis, neurodegenerative diseases (cultis, orchn's disease and atherosclerosis, neurodegenerative diseases (multiple sclerosis, parkinson's disease, dementia and Alzheimer's diseases Treating ankylosis in a human, comprises administering a tumor necrosis factor (TNF)-inhibiting amount of anti-TNF chimeric antibody. Claim 7; Fig 16B; 97pp; English.

ŝ Siegel

Daddona P, Ghrayeb J, Knight D,

WPI; 2003-255124/25. Le J, Vilcek J,

N-PSDB; ABX11366.

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disease), cancer, hepatitis, ocular neovascularisation, psoriasis, ducdenal ulcers and angiogenesis of the female reproductive tract. The chimeric anti-TNF MAD was well-tolerated and involved no haemodynamic, febrile or allergic episodes. The sequence presented is the murine cAZ variable heavy chain of the TNFalpha antibody
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                                                                                                                                                                                                                                                                                                                                                                                                      Mouse; tumour necrosis factor alpha; INF alpha; immunomodulator; INF-Antagonist; cachexia; cancer; HIV; AIDS; cA2 heavy chain variable region.
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                                                                                                        Length 119;
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Pred. No. 1.3e-49;
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                                                                                                    Query Match
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Matches 119; Conservative
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N-PSDB; ACD28372.
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04-FEB-1994;
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11-DEC-1995;
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binding of TNF to monoclonal antibody (mAb) cA2; (b) chimeric anti-TNF antibody cA2; (c) at least one mAb cA2, or its TNF-binding fragment; or (d) an anti-TNF chimeric antibody with epitopic specificity identical to mAb cA2. Administering a TNF-inhibiting amount of an anti-TNF chimeric antibody which has epitopic specificity identical to mAb cA2 is useful for treating cachexia in humans, particularly a cachexia associated with cancer, HIV or AIDS. This is the amino acid sequence of mouse cA2 heavy chain, variable region used in the creation of TNF alpha-antibody fusion
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New human anti-tumor necrosis factor (TNF) antibody
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                                                                                                                                                                    100.0%; Score 636; DB 6;
100.0%; Pred. No. 1.3e-49;
ive 0; Mismatches 0;
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92US-00853606.
92US-00010406.
93US-00013413.
94US-00192093.
94US-00192861.
94US-00324799.
94US-00570674.
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2001US-00756398
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                                                                                                                                                                                     Best Local Similarity 100.
Matches 119; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
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                                                                                                                                             Sequence 119 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-JUL-2002;
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29-JAN-1993;
02-FEB-1993;
04-FEB-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-FEB-1994;
04-FEB-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                         18-DEC-2003
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18-MAR-1992,
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                                                                                                                   proteins
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binding fragment that competitively inhibits binding of A2 or CA2 to human TNF-alpha, useful for diagnosing and treating TNF-alpha-mediated diseases, e.g. infection.

Disclosure; SEQ ID NO 5; 97pp; English.

The intrody or its antigen binding fragment that competitively inhibits binding of antibodies A2 or cA2 to human INF-alpha. The invention also relates to a composition comprising the antibody or its antigen binding fragment and a composition comprising the antibody or its antigen binding fragment and a carrier, a human light or heavy chain that specifically binds human TNF-alpha, the human light or heavy chain consisting of the complementarity determining regions of the light or heavy chain of A2 or cA2, and a human light or heavy chain framework region and an isolated antibody is useful in in vivo diagnosis and therapy of TNF-alpha -mediated pathologies and conditions, such as infections (e.g. bacterial, viral, anterosclerosis), autoimmune diseases (e.g. sarcidosis, atherosclerosis), autoimmune diseases (e.g. rheumatoid arthritis, systemic lupus erythematosus), neurodegenerative diseases (e.g. lymphomas, carcinomas) and alcohol-induced hepatitis. This sequence represents the mouse cA2 antibody heavy chain variable region polypeptide. The invention relates to a human anti-tumour necrosis factor

Sequence 119 AA;

0; Gaps Query Match
100.0%; Score 636; DB 7; Length 119;
Best Local Similarity 100.0%; Pred. No. 1.3e-49;
Matches 119; Conservative 0; Mismatches 0; Indels 1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAŢ 60

1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMWWWVRQSPEKGLEWVAEIRSKSINSAT 60 61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119 D, Š

Search completed: December 15, 2004, 17:16:39 Job time : 119.947 secs

Sequence 15, Appl Sequence 15, Appl Sequence 15, Appl Sequence 17, Appli Sequence 17, Appli

```
APPLICANT: Le, Junming
APPLICANT: Vilcek, Jan
APPLICANT: Daddona, Peter E.
APPLICANT: Baddona, Peter E.
APPLICANT: Ghrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott A.
TITLE OF INVENTION: ANTI-TNF ANTIBODIES AND ASSAYS EMPLOYING
TITLE OF INVENTION: ANTI-TNF ANTIBODIES
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Flopped disk
MEDIUM TYPE: Flopped disk
COMPUTER: IBM FC compatible
COMPOTER: IBM FC compatible
SOFTWARE: Patentin Release #1.0, Version #1.25
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/192,102
FILING DATE: 04-FEB-1994
APPLICATION NUMBER: US/08/192,093
FILING DATE: 02-FEB-1994
APPLICATION NUMBER: US 08/010,406
FILING DATE: 12-ANN 1993
RRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
RRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
RRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: BROOK, DATA!
NAME: 22,592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
US-09-166-093-15
US-09-166-093-15
US-09-166-093-15
US-09-166-093-17
US-09-166-750-17
US-09-172-019-17
US-09-172-019-17
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US-08-468-61-1
US-08-468-61-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Application US/08192102
Patent No. 5656272
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: Lexington
STATE: Massachusetts
       RESULT 1
US-08-192-102-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
         APPLI
                                                                                                                                                                   December 15, 2004, 17:10:19 ; Search time 30.5398 Seconds (without alignments) 258.412 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 5, Sequence 2, Sequence 2, Sequence 28, Sequence 10, Sequence 14, Sequence 23, Sequence
                                                                                                                                                                                                                                                                                     636
1 EVKLEESGGGGLVQPGGSMKL.....RNYYGSTYDYWGQGTTLTVS 119
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Sequence 1
Sequence 1
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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
                                  GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-192-102-5
US-08-192-102-5
US-08-192-102-5
US-08-192-033A-5
US-08-192-033A-5
US-08-192-033A-5
US-08-48-28-28
US-08-48-28-28
US-08-48-28-28
US-08-224-59-14
US-08-102-33-14
US-09-166-093-23
US-09-166-093-23
US-09-166-093-13
US-09-143-213-13
US-09-143-213-13
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                                                                                                                                                                                                                                                                                                                                                                                                                           478139 seqs, 66318000 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUMMARIES
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                            OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                         BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Issued_Patents_AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                               US-09-897-724-5
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Match Length
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Perfect score:
                                                                                                                                                                                                                                                                                                                                                            Scoring table:
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                                                                                                                                                                                                                                                                                                                  Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database
                                                                                                                                                                            Run on:
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APPLICATION NUMBER: US 07/853,606
FILING DATE: 18-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Hamilton, B. STREET: Two Militia Dr. CITY: Lexington STATE: Massachusetts COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                          ; TOPOLOGY: linear; MOLECULE TYPE: protein US-08-324-799-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02173
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                                                                                                                                                                                                                                                                                                                                   Query Match 100.0%; Score 636; DB 1; Length 119; Best Local Similarity 100.0%; Pred. No. 2.4e-55; Matches 119; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Application US/08324799

Sequence 5, Application US/08324799

Patent No. 5838155

GENERAL INFORMATION:

APPLICANT: Le, Junning
APPLICANT: Baddona, Peter E.
APPLICANT: Siegel, Goott A.
APPLICANT: Siegel, Goott A.
APPLICANT: Siegel, Goott A.
TITLE OF INVENTION: OF HUMAN TUMOR NECROSIS FACTOR NUMBER OF SEQUENCES: 19
CORRESPENDENCE ADDRESS:
ADDRESSES: Hamilton Brock, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
CONTRY: USA
ZIPP: O2173
COMPUTER: EADABLE FORM:
MEDIUM TYPE: Flopy disk
CONTURY: LEXINGTON NUMBER: US/08/324,799
FILING DATE: 18-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/192,102
FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/13,413
FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/13,413
FILING DATE: 04-FEB-1994
PRIOR APPLICATION NUMBER: US/08/13,413
FILING DATE: 02-FEB-1993
PRIOR APPLICATION NUMBER: US/08/13,413
FILING DATE: 02-FEB-1993
PRIOR APPLICATION NUMBER: US/08/013,413
     NYU93-01M3
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
PRIOR APPLICATION DATA:
                                                                                                                                    LENGTH: 119 amino acids
; TYPE: amino acids
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-192-102-5
REFERENCE/DOCKET NUMBER: NY
TELECOMMUNICATION INFORMATION
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 2
US-08-324-799-5
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1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMWWVRQSPEKGLEWVAEIRSKSINSAT 60
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US-08-192-861A-5
Patent No. 5919452
Patent No. 5919452
GENERAL INFORMATION:
APPLICANT: Le, Junming
APPLICANT: Le, Junming
APPLICANT: Chrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Knight, David M.
APPLICANT: Stegel, Scott A.
TITLE OF INVENTION: METHODS OF TREATING TNF'-MEDIATED DISEASE USING
TITLE OF INVENTION: CHIMBERIC ANTI-TNF ANTIBODIES (As Amended)
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Indels
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Two Militia Drive.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER TELAGABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: TEN PC compatible
COMPUTER: TEN PC COMPUTER:
COMPUTER: TEN PC COMPUTER:
COMPUTER: TEN PC COMPUTER:
SOFTWARE: PATENTIN DATA:
APPLICATION NUMBER: US/08/192,861A
FILING DATE: 04 *FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/013,413
FILING DATE: 02 *FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/010,406
FILING DATE: 29 *JAN-1993
PRIOR APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
PRIOR APPLICATION NUMBER: US 07/943,852
FRING DATE: US 08/010 *ABPLICATION NUMBER: US 07/943,852
FRING DATE: US 08/010 *ABPLICATION NUMBER: US 07/943,852
FRING DATE: US 08/010 *ABPLICATION NUMBER: US 07/983,606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Score 636; DB 1;
; Pred. No. 2.4e-55;
0; Mismatches 0;
FILING DATE: 10-101.

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: BROOK, DAVId E.
REGISTRATION NUMBER: 22.592
REFERENCE/DOCKET NUMBER: NYU93-01M4
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acids
TYPE: amino acid
TYPE: amino acid
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 100.0%;
Matches 119; Conservative 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 HYAESVKGRFTISRDDSKSAVYLQMIDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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| Patent No. 6277969
| GENERAL INFORMATION |
| APPLICANT: Le, Junming |
| APPLICANT: Vilcek, Jan |
| APPLICANT: Officek, Jan |
| APPLICANT: Single, South |
| APPLICANT: Knight, David |
| APPLICANT: Knight, David |
| APPLICANT: Right, David |
| APPLICANT: Single, Soct A |
| TITLE OF INVENTION: OF HUMAN TUMOR NECROSIS. FACTOR |
| NUMBER OF SEQUENCES: 19 |
| CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C. STREET: Two Militia Drive STREET: Two Militia Drive STREET: Lexington STATE: Massachusetts COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
APPLICATION DATA:
APPLICATION NUMBER: US/09/133,119
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
100.0%; Score 636; DB 2;
Best Local Similarity 100.0%; Pred. No. 2.4e-55;
Matches 119; Conservative 0; Mismatches 0;
                                                                                                                         NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: NYU93-01M2
TELECOMNUNICATION INFORMATION:
TELEPHONE: (781) 861-6240
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRICE AND DATA:
PRICE AND DATA:
APPLICATION NUMBER: 08/570,674
FILING DATE: 11-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/324,799
FILING DATE: 18-0CT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/192,093
FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 08/192,102
FILING DATE: 04-FEB-1994
FILING DATE: 04-FEB-1994
                                                     US 07/670,827
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                     LENGTH: 119 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                              , MOLECULE TYPE: protein US-08-192-861A-5
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US-09-133-119-5
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1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAŢ 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGGGTTLTVS 119
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US-08-192-093A-5
Sequence 5, Application US/08192093A
Sequence 5, Application US/08192093A
Sequence 5, Application US/08192093A
Sequence 5, Application US/08192093A
Sequence 5, Auming
APPLICANT: Le, Junming
APPLICANT: Night, David M.
APPLICANT: Knight, David M.
APPLICANT: Siggel, South
ITILE OF INVENTION: ANTI-TNF' ANTIBODIES AND ASSAYS EMPLOYING
ITILE OF INVENTION: ANTI-TNF' ANTIBODIES
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .;
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COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 02173

COMPUTER READALE FORM:
MEDIUM TYBE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
100.0%; Score 636; DB 3;
Best Local Similarity 100.0%; Pred. No. 2.4e-55;
Matches 119; Conservative 0; Mismatches 0;
PRIOR ABLICATION NUMBER: 08/192,861
FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA: 08/013,413
PRIOR APPLICATION DATA: 08/013,413
PRIOR APPLICATION DATA: 08/010,406
FILING DATE: 02-FEB-1993
PRIOR APPLICATION DATA: 08/010,406
FILING DATE: 29-JAN-1993
PRIOR APPLICATION DATA: 18-FILING D
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWNNWVRQSPEKGLEWVAEIRSKSINSAT 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGGGTTLTVS 119
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                                                         PRIOR PILING DATE: 1993-01-29
PRIOR APPLICATION NUMBER: U.S. 08/013,413
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-03-18
PRIOR FILING DATE: 1992-03-18
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PastSEQ for Windows Version 4.0
SOFTWARE: PastSEQ for Windows Version 4.0
LENGTH: 119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 616; DB 4; Length 119; Best Local Similarity 100.0%; Pred. No. 2.4e-55; Matches 119; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: RING, DAVID B.
APPLICANT: RING, DAVID B.
TITLE OF INVENTION: MOLECULES SPECIFIC FOR CANCER ANTIGENS
TUTLES OF INVENTION: MOLECULES SPECIFIC FOR CANCER ANTIGENS
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: CHIRON CORPORATION
STREET: INTELLECTUAL PROPERTY - R440, PO BOX 8097
CITY: EMERYVILLE
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          81.6%; Score 519; DB 3; Length 122;
81.3%; Pred. No. 8e-44;
Live 8; Mismatches 9; Indels
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MODIUM TYPE: Floppy disk
COMPUTER: IEM Floppy disk
COMPUTER: IEM FC compatible
COMPUTER: TEM FC compatible
COMPUTER: PC-DOS/MS-DOS
SOPTHARE: PC-DOS/MS-DOS
SOPTHARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
FTLING DATE: 07-UUN-1995
CLASSIFICATION: 536
                                        APPLICATION NUMBER: U.S. 08/010,406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 2, Application US/08483749A Patent No. 6054561
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NAME: SAVEREIDE, PAUL B.
REGISTATION UNDRER: 36,914
REPERENCE/DOCKET NUMBER: 0508
TELECOMMUNICATION INFORMATION:
TELEFONE: ($10) 601-2585
TELEFAX: ($10) 655-3542
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : 122 amino acids
amino acid
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Best Local Similarity 81.3
Matches 100; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
CORGANISM: Mus Balb/c
US-09-756-301B-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 7
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Best Local Similarity 100.0%; Score 636; DB 3; Length 119;
Best Local Similarity 100.0%; Pred. No. 2.4e-55;
Matches 119; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT Let, Junming
APPLICANT: Unleck, Jan
APPLICANT: Daddona, Peter
APPLICANT: Daddona, Peter
APPLICANT: Ghrayba, John
APPLICANT: Ghrayba, John
APPLICANT: Siegel, Scott
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Human Tumor Necrosis Factor
FILE REFERENCE: 0975-1005-008
CURRENT APPLICATION NUMBER: U.S. 09/133,119
PRIOR PILICATION NUMBER: U.S. 09/133,119
PRIOR PILICATION NUMBER: U.S. 09/133,119
PRIOR PILICATION NUMBER: U.S. 08/570,674
PRIOR PILING DATE: 1996-08-12
PRIOR PILING DATE: 1996-10-18
PRIOR PILING DATE: 1996-10-18
PRIOR PILICATION NUMBER: U.S. 08/192,102
PRIOR PILICATION NUMBER: U.S. 08/192,093
PRIOR PILICATION NUMBER: U.S. 08/192,093
PRIOR PILING DATE: 1994-02-04
APPLICATION NUMBER: US/08/192,093A
FILING DATE: 04-FEB-1994
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 08/013,413
FILING DATE: 02-FEB-1993
APPLICATION NUMBER: US 08/010,406
FILING DATE: 29-JAN-1993
APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 18-PAR-1992
APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1992
APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
APPLICATION NUMBER: 22.592
REFERENCE/DOCKET NUMBER: 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 5, Application US/09756301B
Patent No. 6790444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : 119 amino acids
amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ) MOLECULE TYPE: protein US-08-192-093A-5
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61 HYAESVXGRFTISRDDSXSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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                                                                                                                                                                                     1 EVKTEESGGGLVQPGGSMKLSCVASGFTFSNYWMNWVRQSPEKGLEWVAEIRLKSNNYAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 EVKLEESGGGLVQPGGSMKLSCVASGFTFSNYMMWWVRQSPEKGLEWVAEIKLKSNNYPT
                                                                                                                                                            1 BVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT
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                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 10, Application US/08483749A;
Sequence 10, Application US/08483749A;
Patent No. 604561

GENERAL INFORMATION:
APPLICANT: RING, DAVID B.
TITLE OF INVENTION: ANTIGEN-BINDING SITES OF ANTIGENS
TITLE OF INVENTION: MOLECULES SPECIFIC FOR CANCER ANTIGENS
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: CHIRON CORPORATION
STREET: INTELLECTUAL PROPERTY - R440, PO BOX 8097
CITY: EMBRYVILLE
STATE: CA.
                                                                                                               .
0
                                                             Score 509; DB 3; Length 120;
Pred. No. 7.5e-43;
8; Mismatches 15; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: PETENT FOLDS/NS-DOS
SOFTWARE: PETENT RELEASE #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/483,749A
FILING DATE: US-05/10N-1995
CLASSIPECATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: SAVERRIDE, PAUL B.
REGISTRATION NUMBER: 95,914
REFERENCE/DOCKET NUMBER: 0508.008
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     79.7%; Score 507; DB 3; 79.8%; Pred. No. 1.1e-42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 94662-8097
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM:PC compatible
OPERATING SYSTEM: PC_DOS/MS_DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 10
US-08-767-128-26
'Sequence 26, Application US/08767128
'Patent No. 6111079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: ($10) 601-2585
TELEFAX: ($10) 655-3542
INFORMATION FOR SEQ ID NO: 10: SEGUENCE CHARACTERISTICS:
LENGTH: 114 amino acids
                                                                Query Match
Best Local Similarity 80.7%;
Matches 96; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 79.89
Matches 95; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-483-749A-10
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; ORIGINAL SOURCE:
US-08-767-128-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                       RESULT 9
US-08-483-749A-10
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                                                                                                                                             61 HYAESVKGRFTISRDDSKSSVYLQLNNLRAEDTGIYYCARERYLYYY--TMDYWGQGTSV 118
                                                                                                                  61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRN----YYGSTYDYWGQGTTL 116
                                                 1 EVKLEESGGGLVQPGRSWKLSCVASGFTFSNYWMWWWQSPEKGLEWVAEIRLKSNNYAT 60
                        EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMWWRQSPEKGLEWVAEIRSKSINSAT 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt STREET: 3100 No. 6111079west Center, 90 South Seventh St CITY: Minneapolis
                                                                                                                                                                                                                                                                                                                                                        Sequence 28, Application US/08767128
Sequence 28, Application US/08767128
Setent No. 611079
GENERAL INFORMATION:
APPLICANT: WYLIE, DANNE E.
APPLICANT: MURRAY, PETER JOSEPH
APPLICANT: GOEBEL, PETER
TITLE OF INVENTION: LEAD BINDING POLYPEPTIDES AND
TITLE OF INVENTION: NUCLECTIDES CODING THEREFORE
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/09258
FILING DATE: 05-UNN-1996
PRIOR APPLICATION NUMBER: PCT/US96/09258
FILING DATE: 06-UN-1995
FILING DATE: 10-OCT-1995
PRIOR APPLICATION NUMBER: 08/461,373
PRIOR APPLICATION NUMBER: 08/462,798
FILING DATE: 05-UNN-1995
ATTORNEY, AGENT INPORMATION:
NAME: CATTER, Charles GREENENCE/DOCKET NUMBER: 848.49USF1
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFONE: 612/31-5278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MBDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COPERATING SYSTEM: DOS
SOFTWARE: PSESTED VERSION 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/767,128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 04-DEC-1996
CLASSIFICATION: 424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : 120 amino acids
amino acid
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SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       internal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     single
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STRANDEDNESS:
                                                                                                                                                                                                        117 TVS 119
                                                                                                                                                                                                                                                       119 TVS 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 BVKLBESGGGLVQPGGSMKLSCVASGFTFSNYWMNWVRQSPEKGLEWVAEVRLKS-NYAT 59
       APPLICANT: WYLLE, DWANE E.
APPLICANT: WYLLE, DWANE E.
APPLICANT: LOFEZ, OSVALDO
APPLICANT: GOEBEL, PETER JOSEPH
TITLE OF INVENTION: LEAD BINDING POLYPEFTIDES AND
TITLE OF INVENTION: WOLCEOTIDES CODING THEREFORE
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marchant, Gould, Smith, Edell, Welter & Schmidt
STREET: 3100 No. 6111079west Center, 90 South Seventh St
CITY: Minneapolis
STATE: M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 119;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 504.5; DB 3;
Pred. No. 2.1e-42;
7; Mismatches 14;
                                                                                                                                                                                                                                   79.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEX:
INFORMATION FOR SEQ ID NO: 26
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 81.5'
Marches 97; Conservative
                                                                                                                                                                                               ZIP: 55402
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            internal
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SENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ANTI-SENSE: NO FRAGMENT TYPE: ORIGINAL SOURCE: US-08-767-128-26
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RESULT 11 US-08-224-591-14

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126 EVKLDETGGGLVQPGRPMKLSCVASGFTFSDYMMNWRQSPEKGLEWVAQIRNKPYNYET 185
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 76.6%; Score 487; DB 2; Length 242; 74.8%; Pred. No. 2.5e-40; Live 16; Mismatches 12; Indels
                                                                            APPLICANT: Whitlow, Marc
APPLICANT: Filpula, David
TITLE OF INVENTION: Linker For Linked Fusion Polypeptides
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Whitlow, Marc
APPLICANT: Wood, James F.
APPLICANT: Wood, James F.
APPLICANT: Hardman, Karl
APPLICANT: Hidden, Marc
APPLICANT: Filpula, David
TITLE OF INVENTION: Multivalent Antigen-Binding Proteins
NUMBER OF SEQUENCES:
ADDRESSES: Sterne, Kessler, Goldstein & Fox P.L.L.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSE: Sterne, Kessler, Goldstein & Fox P.L.L.C. STREET: 1100 New York Avenue, NW
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/224,591
FILING DATE: Herewith
CLASSIFCATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/002,845
FILING DATE: 15-JAN-1993
APPLICATION NUMBER: US 07/980,529
FILING DATE: 20-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: GOIGHT INFORMATION:
NAME: GOIGHT INFORMATION:
REGISTRATION NUMBER: 29,021
REFERENCE/COCKET NUMBER: 0977.1920002/JAG
TELECOMMUNICATION:
NAME: (202) 371-2600
                                                                                                                                                                                                           E: Sterne, Kessler, Goldstein & Fox 1100 New York Avenue, Suite 600
                                                                                                                                                                                                                                                                                                                                ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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Sequence 14, Application US/08224591
Patent No. 5856456
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE, CHARACTERISTICS:
LENGTH: 242 amino acids
TYPE: amino acid
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Best Local Similarity 74.8
Matches 89; Conservative
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                                                                                                                                                                                                                                                         CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
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                                                                                                                                                                                                                                         STREET:
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APPLICANT: Whillow, Marc
APPLICANT: Whillow, Marc
APPLICANT: Wood, James F.
APPLICANT: Hardman, Karl
APPLICANT: Hardman, Karl
APPLICANT: Filpula, David
APPLICANT: Filpula, Michelle
APPLICANT: Filpula, David
APPLICANT: Filpula, Filp
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                76.6%; Score 487; DB 2; Length 242; 74.8%; Pred. No. 2.5e-40; Live 16; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, NW
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Washington
CITY: Washington
ZITY: Washington
ZUNTRY: U.S.A.
ZUNTRY: U.S.A.
ZUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/166,750
FILING DATE: 12-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/392,338
FILING DATE: 22-FEB-1995
PRIOR APPLICATION NUMBER: US 07/989,846
FILING DATE: 20-NOV-1992
PRIOR APPLICATION NUMBER: US 07/989,846
FILING DATE: 22-FEB-1995
PRIOR APPLICATION NUMBER: US 07/989,846
FILING DATE: 22-FEB-1995
PRIOR APPLICATION NUMBER: US 07/989,846
FILING DATE: 25-NOV-1992
ATTORNEY/AGENT INFORMATION:
FILING ADATE: 12-0AN-1993

PRIOR APPLICATION NUMBER: US 08/002,845

PRIOR APPLICATION DATE: 25-0AN-1993

PILING APPLICATION NUMBER: US 07/980,529

FILING DATE: 20-NOV-1992

ATTOMNEY AGENT INFORMATION:
NAME: Goldstein, Jorge A.
REGISTRATION NUMBER: 0977.1920002/JAG

FREERENCE/DOCKET NUMBER: 0977.1920002/JAG

TELEPHONE: (202) 371-2600

TELEPHONE: (202) 371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 23, Application US/09166750
Patent No. 6025165
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , MOLECULE TYPE: protein US-08-926-789-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 14, Application US/08926789
Patent No. 5990275
GENERAL INFORMATION:
APPLICANT: Whitlow, Marc
APPLICANT: Filpula, David
TITLE OF INVENTION: Linker For Linked Fusion Polypeptides
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
                                                                                                                                                                                         COMPUTER REALBABLE FORM:
COMPUTER: IBM PC compatible
SOSTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US (08/392,338A
FILING DATE: 22-FEB-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/989,846
FILING DATE: 25-NOV-1992
PRIOR APPLICATION NUMBER: US 07/796,936
FILING DATE: 25-NOV-1991
ATTONNEY/AGENT INFORMATION:
NAME: GOLDATE: 25-NOV-1991
ATTONNEY/AGENT INFORMATION:
TELEPAX: (202) 371-2500
TELE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE: D.C.
COUNTRY: U.S.A.
ZIP: JOUGS
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/926,789
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
PAROR APPLICATION NUMBER: 08/224,591
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE: protein US-08-392-338A-23
                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
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US-08-926-789-14
                                                                           COUNTRY:
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1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT 60
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Patent No. 602725

GENERAL INFORMATION:
APPLICANT: Whitlow, Marc
APPLICANT: Hardman, Karl
APPLICANT: Hardman, Karl
APPLICANT: Bird, Robert
APPLICANT: Billola, Marc
APPLICANT: Billola, Marc
APPLICANT: Billola, Marc
APPLICANT: Rillola, Marc
APPLICANT: Rollence, Michelle
TITLE OF INVENTION: Multivalent Antigen-Binding Proteins
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS: 23
CORRESPONDENCE ADDRESS: 32
STREET: 1100 New York Avenue, NW
CITL Washington
STATE: D.C.
CCUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                               76.6%; Score 487; DB 3; Length 242; 74.8%; Pred. No. 2.5e-40; Live 16; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/166,093
FILING DATE: Herewith
NAME: Goldstein, Jorge A.

REFERENCE/DOCKET NUMBER: 29,021

REFERENCE/DOCKET NUMBER: 0977.003000C

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 371-2600

TELEPHONE: (202) 371-2600

TELEPHONE: (202) 371-2600

REQUENCE CHARACTERISTICS:

LENGTH: 242 amino acids

TYPE: amino acid

TYPE: amino acid

MOLECULE TYPE: protein

US-09-166-750-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 06/392,338
FILING DATE: 22-FEB-1995
FILING DATE: 22-FEB-1995
PRIOR APPLICATION NUMBER: US 07/989,846
FILING DATE: 20-NOV-1992
APPLICATION NUMBER: US 07/796,936
FILING DATE: 25-NOV-1991
ATTORNEY/AGENT INFORMATION:
NAME: Goldstein, Jorge A.
REGISTRATION NUMBER: 29,021
REPERRINCE/DOCKET NUMBER: 0977.003000B
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 23:
                                                                                                                                                                                                                                                                                                                                                 Query Match 76.6
Best Local Similarity 74.8
Matches 89; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy d.
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1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT 60
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                                                                                                                                                                                       Gaps
                                                                                                                                                                                          7
                                                                                                                                           Length 242;
                                                                                                                                               Query Match
76.6%; Score 487; DB 3; Length 24
Best Local Similarity 74.8%; Pred. No. 2.5e-40;
Matches 89; Conservative 16; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                   Search completed: December 15, 2004, 17:22:51 Job time : 31.5398 secs
; SEQUENCE CHARACTERISTICS:
; LENGTH: 242 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-166-093-23
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December 15, 2004, 17:21:06 ; Search time 101.624 Seconds (without alignments) 418.250 Million cell updates/sec
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636
1 BUKLEESGGGLVQPGGSMKL......RNYYGSTYDYWGQGTTLTVS 119
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1: /cgn2_6/ptodata/2/pubpaa/USO7_PUBCOMB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/PCT NEW PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/USO6_NEW PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/USO6_NEW PUB.pep:*

5: /cgn2_6/ptodata/2/pubpaa/USO6_NEW PUB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/USO8_NEW PUB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/USO8_NEW PUB.pep:*

8: /cgn2_6/ptodata/2/pubpaa/USO8_NEW PUB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*

12: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*

13: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*

14: /cgn2_6/ptodata/2/pubpaa/USO9_NEW PUB.pep:*

15: /cgn2_6/ptodata/2/pubpaa/USO0_NEW PUB.pep:*

16: /cgn2_6/ptodata/2/pubpaa/USO0_NEW PUB.pep:*

17: /cgn2_6/ptodata/2/pubpaa/USOO_NEW PUB.pep:*

18: /cgn2_6/ptodata/2/pubpaa/USOO_NEW PUB.pep:*

19: /cgn2_6/ptodata/2/pubpaa/USOO_NEW PUB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1585576 seqs, 357178320 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                 using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| | | | | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli |
|-----------|---|--------|-----------------|------------------|-----------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | | c | 5,1 | 'n | 'n | 'n | 'n | 'n | 'n | 'n | 'n | ທີ | 'n | ທ | ທ |
| | | | Description | Sequence 5, | Sequence | Sequence | Seguence | Seguence | Sequence | Sequence 5, |
| SUMMARIES | | | ar | US-09-756-301A-5 | US-09-927-703-5 | US-09-766-535A-5 | US-09-756-161A-5 | US-09-756-398B-5 | US-09-897-724-5 | US-10-010-229-5 | US-10-043-450-5 | US-10-044-534-5 | US-10-043-432-5 | US-10-208-145-5 | US-10-198-845-5 | US-10-227-488-5 |
| | | | DB | | 0 | O | σ | 10 | 10 | 13 | 13 | 13 | 14 | 14 | 14 | 14 |
| | | | Match Length DB | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 |
| | ₩ | Query | Match | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | | | Score | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 |
| | | Result | No. | н | 7 | e | 4 | S | 9 | 7 | Φ | σ | 10 | 11 | 12 | 13 |

| Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appli | Appl , | Appli | Appl: | Appli | , Appl | , Appl | . Appl | , Appl | Appl , | , Appl | App] | , App] | , App] | , App] | Appli | Appl | Appli | Appli | , App] | , App] | , App] | , App] | , App] |
|--------------|-----------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|----------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|------------|--------------|---------------|---------------|---------------|--------------|--------------|
| | S, | | | | | | | S | | | | 2 | 4 | 4 | 4 | 42, | 4 | 4, | 4 | 4 | 4 | N | | | 7 | 1 | φ | 7 | w | 0 | φ |
| Sequence | Sequence | Seguence | Seguence | Sequence | Sequence | Sequence | Sequence | Seguence | Sequence | Seguence | Sequence | Sequence | Sequence | Sequence | Sequence | Sequence | Sequence | Sequence | Seguence | Sequence | Sequence | Sequence | Sequence | Sequence | Seguence | Sequence | Seguence | Seguence | Seguence | Sequence | Sequence |
| | | | | | | | | | | | | | | | | | | | - | | | | | | | | | | | | |
| -10-187-121- | US-10-176-460-5 | -10-186-559- | -10-371-961- | -10-200-795- | -10-319-011- | -10-371-443- | -10-379-866- | -10-371-962- | -10-384-060- | -10-665-971- | -10-637-759- | -10-774-118- | -10-411-037-4 | -10-411-026-4 | -10-410-962-4 | 0-411-04 | -10-410-930-4 | -10-410-997-4 | -10-411-012-4 | -10-287-994-4 | -10-410-913-4 | -10-384-060-2 | -10-338-552- | -10-338-627- | 10-338-552 | -10-338-627- | -10-239-656-6 | -10-239-656-7 | -10-160-506-6 | -10-449-379- | 10-688-015-6 |
| 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 15 | 15 | 15 | 12 | 16 | 16 | 16 | 16 | 16 | 14 | 16 | 16 | 16 | 16 | 15 | 12 | 14 | 16 | 16 |
| | 119 | _ | \rightarrow | _ | | | _ | _ | _ | _ | _ | _ | \sim | \sim 1 | \sim 1 | \sim | \sim 1 | \sim 1 | \sim | \sim | O | 7.11 | \sim | O | C | N | 10 | \circ | N | N | N |
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| 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | 636 | . 636 | 636 | 636 | 550 | 550 | 545 | 545 | 529 | 529 | 22. | 522.5 | 22. |
| 14 | 15 | 16 | 17 | 18 | 13 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

ALIGNMENTS

US-09-756-301A-5

Sequence 5. Application US/09756301A

Sequence 5. Application US/09756301A

GENERAL INFORMATION:
APPLICANT: Volcek, Jan
APPLICANT: Ghrayeb, John
APPLICANT: Ghrayeb, John
APPLICANT: Ghrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Knight, David M.
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Atti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Atti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Atti-TNF Antibodies of
TITLE OF INVENTION: MUMBER: US/09/756,301A
CURRENT FILING DATE: 1998-08-12
PRIOR PPLICATION NUMBER: U.S. 09/133,119
PRIOR PLILING DATE: 1998-08-12
PRIOR APPLICATION NUMBER: U.S. 08/570,674
PRIOR PLILING DATE: 1994-02-04
PRIOR PLILING DATE: 1994-02-02
PRIOR PLILING DATE: 1994-02-02
PRIOR PLILING DATE: 1993-02-02
PRIOR PLILING DATE: 1992-03-11
PRIOR PLILING DATE: 1992-03-11
PRIOR PLILING DATE: 1992-03-18
PRIOR PLILING DATE: 1992-03-18

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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                 Sequence 5, Application US/09766535A Patent No. US20020106372A1 GENERAL INFORMATION:
APPLICANT: Le, Junming
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 4
US-09-756-161A-5
; Sequence 5, Application US/09756161A
            119; Conservative
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CRGANISM: Mus Balb/c
US-09-766-535A-5
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               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                  1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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0
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Best Local Similarity 100.0%; Pred. No. 2e-49;
Matches 119; Conservative 0; Mismatches 0; Indels
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Pred. No. 2e-49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL LINCOMMENTION:

APPLICANT: Vilcek, Jan
APPLICANT: Vilcek, Jan
APPLICANT: Vilcek, Jan
APPLICANT: Claddona, Peter
APPLICANT: Claddona, Peter
APPLICANT: Siegel, Cohn
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Anti-TYF Antibodies and Peptides of
TITLE OF INVENTION: Anti-TYF Antibodies and Peptides of
TITLE OF INVENTION: Human Tumor Necrosis Factor
CURRENT FILING DATE: 2001-08-10
PRIOR FILING DATE: 2001-01-08
PRIOR FILING DATE: 1998-08-12
PRIOR PELICATION NUMBER: U.S. 09/135,119
PRIOR APPLICATION NUMBER: U.S. 08/192,674
PRIOR FILING DATE: 1994-10-18
PRIOR FILING DATE: 1994-02-04
PRIOR FILING DATE: 1994-02-04
PRIOR PELICATION NUMBER: U.S. 08/192,093
PRIOR PELICATION NUMBER: U.S. 08/193,413
PRIOR PELICATION NUMBER: U.S. 08/192,093
PRIOR PELICATION NUMBER: U.S. 08/193,413
PRIOR PELICATION NUMBER: U.S. 08/193,413
PRIOR PELICATION NUMBER: U.S. 08/193,413
PRIOR PELICATION NUMBER: U.S. 07/670,827
PRIOR APPLICATION NUMBER: U.S.07/670,827
PRIOR FILING DATE: 1991-03-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 119
TYPE: PRI
ORGANISM: Mus Balb/c
US-09-756-301A-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 2
US-09-927-703-5
Sequence 5, Application US/09927703
Patent No. US2002022720A1
GENERAL INFORMATION:
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CORGANISM: Mus Balb/c
US-09-927-703-5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Le, Junming APPLICANT: Vilcek, Jan APPLICANT: Vilcek, Jan APPLICANT: Daddona, Peter APPLICANT: Daddona, Peter APPLICANT: Gladdona, Peter APPLICANT: Gladdona, Peter APPLICANT: Siegel, Scott TITLE OF INVENTION 'Hant-TING Necrosis Factor TITLE OF INVENTION 'Hant-TING Necrosis Factor CURRENT APPLICATION NUMBER: US, 09/133,119 PRIOR FILING DATE: 1998-08-12 PRIOR FILING DATE: 1998-08-12 PRIOR FILING DATE: 1995-101-11 PRIOR FILING DATE: 1995-10-11 PRIOR PRIOR FILING DATE: 1995-10-11 PRIOR FILING DATE: 1994-02-04 PRIOR FILING DATE: 1993-02-04 PRIOR FILING DATE: 1993-03-18 PRIOR FILING DATE: 1993-03-18 PRIOR FILING DATE: 1993-03-18 PRIOR FILING DATE: 1992-03-18 PRIOR FILING DATE: 1993-03-18 PRIOR FILING DATE: 1993-03-18 PRIOR FILING DATE: 1993-
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100.0%; Score 636; DB 9; Length 1:
Best Local Similarity 100.0%; Pred. No. 2e-49;
Matches 119; Conservative 0; Mismatches 0; Indels
0; Indels
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61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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US-09 997-724-5
US-09 997-724-5
Publication No US20030175837A1
GENERAL INFORMATION:
APPLICANT: Le, Junming
APPLICANT: Le, Junming
APPLICANT: Le, Junming
APPLICANT: Mick, Jan
APPLICANT: Alegab, John
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Human Tumor Necrosis Factor
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Human Tumor Necrosis Factor
TITLE OF INVENTION: Human Tumor Necrosis Factor
CURRENT APPLICANTON NUMBER: U.S. 08/192,093
PRIOR FILING DATE: 1993-01-29
PRIOR APPLICANTON NUMBER: U.S. 08/013,413
PRIOR FILING DATE: 1993-01-12
PRIOR APPLICANTON NUMBER: U.S. 07/670,827
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0; Mismatches (
PRIOR FILING DATE: 1998-08-12
PRIOR APPLICATION NUMBER: U.S. 08/570,674
PRIOR PILING DATE: 1995-12.1
PRIOR PILING DATE: 1995-12.1
PRIOR APPLICATION NUMBER: U.S. 08/324,799
PRIOR FILING DATE: 1994-02-04
PRIOR FILING DATE: 1993-02-04
PRIOR FILING DATE: 1993-02-04
PRIOR FILING DATE: 1993-02-05
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1993-02-02
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-09-18
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100.0%; Pred. No. 2
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Matches 119; Conservative
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ORGANISM: Mus Balb/c
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                                                                                   APPLICANT: Le, Jumning
APPLICANT: Le, Jumning
APPLICANT: Vilcek, Jan
APPLICANT: Cardena, Peter
APPLICANT: Grayeb, John
APPLICANT: Grayeb, John
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Human Tumor Necrosis Factor
CURRENT APPLICATION NUMBER: US, 09/133,119
PRIOR FILING DATE: 1998-08-12
PRIOR FILING DATE: 1998-08-12
PRIOR FILING DATE: 1994-02-04
PRIOR FILING DATE: 1994-02-04
PRIOR FILING DATE: 1994-02-04
PRIOR PELICATION NUMBER: U.S. 08/192,093
PRIOR FILING DATE: 1994-02-04
PRIOR PELICATION NUMBER: U.S. 08/192,093
PRIOR PELICATION NUMBER: U.S. 08/192,093
PRIOR PELICATION NUMBER: U.S. 08/191,413
PRIOR PELICATION NUMBER: U.S. 08/191,413
PRIOR PELICATION NUMBER: U.S. 08/191,413
PRIOR PELICATION NUMBER: U.S. 08/013,413
PRIOR PELICATION NUMBER: U.S. 08/013,413
PRIOR APPLICATION NUMBER: U.S. 07/943,852
PRIOR PELICATION NUMBER: U.S. 07/943,852
PRIOR PELICATION NUMBER: U.S. 07/670,827
PRIOR APPLICATION NUMBER: U.S. 08/01D NOS: 19
PRIOR PELICATION NUMBER: U.S. 07/670,827
PRIOR APPLICATION NUMBER: U.S. 08/010 NOS: 19
PRIOR PELICATION NUMBER: U.S. 07/670,827
PRIOR APPLICATION NUMBER: U.S. 07/670,827
PRIOR APPLICATION NUMBER: U.S. 08/010 NOS: 19
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APPLICANT: Le, Junming
APPLICANT: Le, Junming
APPLICANT: Daddona, Peter
APPLICANT: Ghrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Anti-TYP Antibodies and Peptides of
TITLE OF INVENTION: Human Tumor Necrosis Factor
FILE REFERENCE: 0975.1005-006
CURRENT PELLING DATE: 2001-01-08
PRIOR APPLICATION NUMBER: U.S. 09/133,119
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100.0%; Pred. No. 2e-
:ive 0; Mismatches
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Best Local Similarity 100.
Matches 119; Conservative
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US-09-756-161A-5
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RESULT 9
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                                                                                                                       100.0%; Score 636; DB 10; Length 119; 100.0%; Pred. No. 2e-49; ive 0; Mismatches 0; Indels 0
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US-10-043-450-5

Sequence 5, Application US/10043450

Publication No. US20020141996A1

GENERAL INFORMATION:
APPLICANT: Uicek, Jan
APPLICANT: Ghayeb, John
APPLICANT: Siegel, Soott
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
FILE REFERENCE: 0975-1005-013

CURRENT APPLICANT: NUMBER: US/10/043,450

CURRENT FILING DATE: 2002-01-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Le, Junming
APPLICANT: Loidek, Jan
APPLICANT: Daddona, Peter
APPLICANT: Ghrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Human Tumor Necrosis Factor
FILE REPERENCE: 0975.1005-013
FILE REPERENCE: 0975.1005-013
CURRENT APPLICATION NUMBER: US/10/010,229
CURRENT APPLICATION NUMBER: US/09/927,703
PRIOR APPLICATION NUMBER: US/09/927,703
PRIOR PILING DATE: 2001-08-10
NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 5, Application US/10010229 Publication No. US20020114805A1 GENERAL INFORMATION:
                                                                                                                    Query Match
Best Local Similarity 100.0
Matches 119; Conservative
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Best Local Similarity 100.
Matches 119; Conservative
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Mus Balb/c
US-09-897-724-5
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ORGANISM: Mus Balb/c
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US-10-010-229-5
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61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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APPLICANT: Victor, Jan
APPLICANT: Victor, Jan
APPLICANT: Ghrayeb, John
APPLICANT: Ghrayeb, John
APPLICANT: Ghrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Human Tumor Necrosis Factor
TITLE OF INVENTION: 1005-1006
TITLE OF INVENTION: 1008-1006
TITLE APPLICATION NUMBER: U.S. 08/570,674
PRIOR PILING DATE: 1994-02-04
PRIOR FILING DATE: 1994-02-04
PRIOR PILING DATE: 1993-01-29
PRIOR PILING DATE: 1993-01-29
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NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSEQ for Windows Version 4.0
       PRIOR APPLICATION NUMBER: U.S. 07/943,852
PRIOR FILING DATE: 1992-09-11
PRIOR FILING DATE: 1992-03-18
PRIOR PILING DATE: 1992-03-18
PRIOR PILING DATE: 1992-03-18
PRIOR PILING DATE: 1991-03-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5
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Publication No. US20030133935A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Mus Balb/c
US-10-043-432-5
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APPLICANT: Le, Junming
APPLICANT: Le, Junming
APPLICANT: Gladdona, peter
APPLICANT: Gladdona, peter
APPLICANT: Gladdona, peter
APPLICANT: Siegel, John
APPLICANT: Siegel, Society
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
TITLE OF INVENTION: Auti-TNF Antibodies and Peptides
CURRENT FILING DATE: 2001-08-10
PRIOR FILING DATE: 2001-08-10
PRIOR PILING DATE: 1998-08-12
PRIOR PILING DATE: 1999-10-18
PRIOR FILING DATE: 1994-02-04
PRIOR PILING DATE: 1993-01-02-04
PRIOR PILING DATE: 1994-02-04
PRIOR APPLICATION NUMBER: U.S. 08/192,093
PRIOR PILING DATE: 1993-01-02-04
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100.0%; Pred. No. 2e-49;
Ative 0; Mismatches 0;
PRIOR APPLICATION NUMBER: U.S. 08/192,102
PRIOR FILING DATE: 1994-02-04
PRIOR PLING DATE: 1994-02-05
PRIOR PLING DATE: 1993-01-29
PRIOR PLING DATE: 1993-01-29
PRIOR PLING DATE: 1993-01-02
PRIOR PLING DATE: 1993-02-02
PRIOR PLING DATE: 1993-02-07
PRIOR PLING DATE: 1992-03-11
PRIOR PLING DATE: 1992-03-18
NUMBER OF SEQ ID NOS: 19
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Application US/10043432
Publication No. US20030054004A1
GENERAL INFORMATION:
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Best Local Similarity 100.
Matches 119; Conservative
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TYPE: PRT
ORGANISM: Mus Balb/c
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                                                     1 EVKLBESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT 60
                                                                                                  61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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 Best Local Similarity 100.0%; Fred. No. 2e-49;
Matches 119; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.
Matches 119; Conservative
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; TYPE: PRT
; ORGANISM: Mus Balb/c
US-10-198-845-5
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RESULT 13 US-10-227-488-5 ; Sequence 5, Application US/10227488

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REPLICANT: Williek, Junning
REPLICANT: Beddona, Peer
REPLICANT: Glargel, Scott Corners is recor
REPLICANT: Glargel, Scott Corners is record
REPLICANT: Glargel, Scott Corners is record in the record i
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Search completed: December 15, 2004, 17:37:56 Job time : 101.624 secs
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Best Local Similarity 100.
Matches 119; Conservative
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; ORGANISM: Mus Balb/c
US-10-176-460-5
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USAGuence 5, Application US/10176460

PUBLICATION NO. USZO030176676A1

GENERAL INFORMATION:
APPLICANT: Vicek, Jan
APPLICANT: Vicek, Jan
APPLICANT: Siegel, Scott
ITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
ITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
ITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
ITLE OF INVENTION: Auti-TNF Antibodies of
ITLE OF INVENTION: Auti-TNF Antibodies of
ITLE OF INVENTION: Auti-TNF Antibodies of
ITLE OF INVENTION: Auti-TNF Antibodies
CURRENT PILLING DATE: 2002-06-20
CURRENT APPLICATION NUMBER: US/10/176,460
CURRENT PILLING DATE: 1998-08-12
PRIOR PILLING DATE: 1998-12-11
PRIOR PILLING DATE: 1998-12-11
PRIOR PILLING DATE: 1998-12-11
PRIOR PILLING DATE: 1998-12-11
PRIOR PILLING DATE: 1998-12-01
PRIOR FILLING DATE: 1998-12-01
PRIOR FILLING DATE: 1998-12-01
PRIOR FILLING DATE: 1998-12-04

PRIOR PILLIATION NUMBER: U.S. 08/192,102

PRIOR PILLIATION NUMBER: U.S. 08/192,02
CURRENT FILING DATE: 2002-06-28
PRIOR APPLICATION NUMBER: US 09/756,398
PRIOR PILING DATE: 2001-01-08
PRIOR PLING DATE: 1998-08-12
PRIOR PLING DATE: 1998-08-12
PRIOR APPLICATION NUMBER: U.S. 08/570,674
PRIOR PILING DATE: 1998-08-12
PRIOR PLING DATE: 1998-08-12
PRIOR PLING DATE: 1994-02-04
PRIOR PLING DATE: 1993-01-29
PRIOR PLING DATE: 1993-01-29
PRIOR PLING DATE: 1993-02-05
PRIOR PLING DATE: 1993-02-05
PRIOR PLING DATE: 1993-02-05
PRIOR PLING DATE: 1993-02-05
PRIOR PLING DATE: 1993-02-02
PRIOR PLING DATE: 1993-02-02
PRIOR PLING DATE: 1993-02-02
PRIOR PLING DATE: 1993-02-02
PRIOR PLING DATE: 1993-02-03
PRIOR PLING DATE: 1993-02-03
PRIOR PLING DATE: 1992-03-18
PRIOR PLING DATE: 1992-03-18
PRIOR PLING DATE: 1992-03-18
PRIOR PLING DATE: 1992-03-18
PRIOR PLING DATE: 1991-03-18
NUMBER: OF SEQ ID NOS: 19
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ORGANISM: Mus Balb/c
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1 BVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMNWVRQSPEKGLEWVAEIRSKSINSAT 60
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PRIOR PILLING DATE: 1994-02-04
PRIOR APPLICATION NUMBER: U.S. 08/192,093
PRIOR PELLING DATE: 1994-02-04
PRIOR PELLING DATE: 1993-01-03
PRIOR PILLING DATE: 1993-01-29
PRIOR PILLING DATE: 1993-01-29
PRIOR PILLING DATE: 1993-02-02
PRIOR PILLING DATE: 1993-02-03
PRIOR PILLING DATE: 1992-09-11
PRIOR PILLING DATE: 1992-03-18
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Appeades: Mus musculus (house mouse)
C.Species: Mus musculus (house mouse)
C.Species: Mus musculus (house mouse)
C.Species: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C.Accession: C92811, A02072
J. Immunol. 128, 302-307, 1982
J. Jumunol. 128, 302-307, 1982
J. Jimmunol. 128, 302-307, 1982
C.Superfamily: immunoglobulin W region; immunoglobulin homology
C.Superfamily: immunoglobulin homology simmunoglobulin homolog
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(29380
Ig heavy chain precursor V region (BC-1004) - mouse (fragment)
C.Species: Mus musculus (house mouse)
C.Species: Mus musculus (house mouse)
C.Accession: (329380
C.Accession: (329380
R.Accession: 222, 13579-13583, 1987
A.Title: Nucleotide and translated amino acid sequences of cDNA coding for the vAreference number: A92612; NUID:880007582; PMID:3115981
A.Accession: (329380
A.Molecule type: mRNA
A.Residus: 1-139 cAHBA
C.Superfamily: immunoglobulin V region; immunoglobulin homology
C.Reywords: heterotetramer; immunoglobulin
F;34-119/Domain: immunoglobulin homology < IMM>
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   13; Indels
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Pred. No. 1.5e-38;
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; Pred. No. 2.5e-39;
11; Mismatches 13;
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Best Local Similarity 79.8†
Matches 95; Conservative
 Query Match
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1 EVKLBESGGGLVQPGGSMKL......RNYYGSTYDYWGQGTTLTVS 119
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(c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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AVMS82
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A25803
AVMS57
AVMS09
PC1213
MHM214
A31485
HVMSAM
S309958
B309958
B34903
D34903
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F34903
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S24521
A34903
E34903
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H36005
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A36006
S30531
                                                                                  - protein search, using
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seq length: 200000000
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Match Length
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                                                                                                                      December 15,
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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Maximum DB
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Avmissi.

Application vill region (U61) - mouse
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: B93818, A02072
R;Vrana, M.; Rudikoff, S.; Potter, M.
Proc. Natl. Acad. Sci. US.A. 75, 1957-1961, 1978
A;Title: Sequence variation among heavy chains from inulin-binding myeloma proteins.
A;Reference number: A93818, MUID:78158406; PMID:417344
A;Accession: B93818
A;Molecule type: protein
A;Residues: 1-113 - VRA>
A;Cross-references: UNIPROT:P01797
C;Comment: This chain was isolated from a myeloma protein that binds inulin.
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords heterotetramer; immunoglobulin homology clowlers: F;15-100/Domain: immunoglobulin homology clowlers: F;22-98/Disulfide bonds: #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inulin-binding myeloma protein.
                                                                                                                                                                                                                                                                         Idybasy chain V-III region (ABE-47N) - mouse C.Species: Mus musculus (house mouse) C.Species: Musculus (house mouse) C.Species: 30-Unu-1993 #sequence_revision 30-Uun-1993 #text_change 09-Jul-2004 C.Accession: A90400; A02072
B;Vrana, M.; Rudikoff, S.; Potter, M.
B;Vrana, M.; Rudikoff, S.; Potter, M.
A;Title: Heavy-chain variable-region sequence from an inulin-binding myeloma profA;Title: Heavy-chain variable-region sequence from an inulin-binding myeloma proface number: A90400; MUD:77134726; PMID:402936
A;Rosession: A90400
A;Molecule type: protein
A;Rosidues: 1-113 <-VRA.
A;Rosicule type: protein
A;Rosicule type: UNIPROT:P01799
C;Comment: This chain was isolated from a myeloma protein that binds inulin. C;Superfamily: immunoglobulin W region; immunoglobulin homology
C;Comment: This chain was isolated from a myeloma protein homology
C;Superfamily: immunoglobulin homology <-IMM>F;22-98/Disulfide bonds: #status predicted
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61 HYAESVKGRFTISRDDSKSSVYLRMNNLRPEDTGIXYCT----TGFAYWGQGTLVTVS 114
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A25803
Ig heavy chain V region (2S1.3)
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AVMS82
Ig heavy chain V-III region (W3082) - mouse
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Date: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Date: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004
C;Accession: D92811, A02072
A;Title: The complete V domain amino acid sequences of two myeloma inulin-binding protein
A;Recession: D92811, MUID:82099361; PMID:6798111
A;Molecule type: protein
A;Recession: D92811
A;Re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Apression to the musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: A39818; A02072
R;Vrana, M.; Rudikoff, S.; Potter, M.
Proc. Natl. Acad. Sci. Us.A. 75, 1957-1961, 1978
A;Title: Sequence variation among heavy chains from inulin-binding myeloma proteins.
A;Reference number: A93818; MUID:78158406; PMID:417344
A;Accession: A93818
A;Accession: A03818
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1 Similarity 81.4%; Pred. No. 3.2e-38;
96; Conservative 8; Mismatches 9; Indels 5:
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                                 9; Indels
                                      8; Mismatches
                                      97; Conservative
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Ig heavy chain V-III region (HPC76) - mouse (fragment)
C;Species: Mus musculus (house mouse)
C;Species: O-Sep-1980 #sequence_revision 30-Sep-1980 #text_change 09-Jul-2004
C;Accession: A02074
R;Bernard, O.; Gough, N.M.
R;Bernard, O.; Gough, N.M.
A;Title: Nucleotide sequence of immunoglobulin heavy chain joining segments between trans, A;Reference number: A02074; MUID:81013937; PMID:6251474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ig heavy chain precursor V region (mAb H8) - mouse (fragment)
(Species: Mus musculus (house mouse)
(Species: Mus musculus (house mouse)
(Spate: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 23-Jul-1999
(Spacession: PC1213
(Si Hong, H.J.; Kim, A.K.; Ryu, C.J.; Park, S.S.; Chung, H.K.; Kwon, K.S.; Kim, K.L.; Kim
(Gene 121, 311-3135, 1992)
(A) Title: Cloning and characterization of CDNAs coding for heavy and light chains of a mount of the chain o
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A,Molecule type: mRNA
A,Molecule type: mRNA
A,Molecule type: mRNA
A,Molecule type: mLNA
A,Cross-references: UNIPROT:P01804
A,Note: the sequence was also determined from the differentiated gene
A,Note: the sequence of the first 197 residues of the C region was also determined and
C,Superfamily: immunoglobulin vegion; immunoglobulin homology
C,Keywords: heterotetramer; immunoglobulin
F;10-94/Domain: immunoglobulin homology <IMM>
F;10-94/Domain: immunoglobulin predicted
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                                                    binds inulin
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A; Residues: 1-139 < HON.
A; Residues: 1-139 < HON.
A; Cross-references: GB:M98041; NID:g195092; PIDN:AAA38159.1; PID:g195093
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Superfamily: immunoglobulin
F;1-19/Domain: signal sequence #status predicted <SIG>F;20-139/Product: Ig heavy chain V region #status predicted <MAT>F;34-119/Domain: immunoglobulin homology <IMM>
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                                                                                                                                                                                                                                                                  113;
   A,Cross-references: UNIPROT:P01798
C;Comment: This chain was isolated from a myeloma protein that C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: hercretramer; immunoglobulin homology F;15-100/Domain: immunoglobulin homology < IMM>
F;12-98/Disulfide bonds: #status predicted
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                                                                                                                                                                                                                                                          ; Score 495.5; DB 1;
; Pred. No. 2.5e-37;
11; Mismatches 9;
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Pred. No. 4.3e-37;
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78.8%;
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Best Local Similarity
Matches 93; Conserv
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Matches 93; Conserv
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C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: A92810; A02072
R;Rudikoff, S.; Potter, M.
J; Timunol. 127, 191-194, 1981
A;Title: Immunoglobulin heavy chains from anti-inulin myeloma proteins: evidence for a natcession: A92810; MuD:81216532; PMID:6787122
A;Accession: A92810; MuD:81216532; PMID:6787122
A;Accession: A92810; MuD:81216532; PMID:6787122
A;Accession: A92810; MuD:81216532; PMID:6787122
C;Comment: This chain was isolated from a myeloma protein that binds inulin.
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin homology cimentine predicted
F;22-98/Disulfide bonds: #status predicted
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Date: 28-Dec-1987 #sequence_revision 28-Dec-1987 #text_change 16-Aug-1996
Accession: A25803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ig heavy chain V-III region (E109) - mouse Cispecies: Mus musculus (house mouse) Cispecies: Mus musculus (house mouse) Cibate: 30-Jun-1993 #sequence_revision 30-Jun-1993 #text_change 09-Jul-2004 CiAccession: C93818; A02072 Rivrans, M.; Rudikoff, S.; Potter, M. Proc. Natl. Acad. Sci. U.S.A. 75, 1957-1961, 1978 Proc. Natl. Acad. Sci. U.S.A. 75, 1957-1961, 1978 A;Tile: Sequence variation among heavy chains from inulin-binding myeloma p A;Reference number: A93818; MUD:78158406; PMID:417344 A;Molecule type: protein A;Residues: 1-113 <VRA>
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Pred. No. 2e-37;
7; Mismatches 11;
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Pred. No. 1.4e-37;
7; Mismatches 13
                                                                                                                                                                                                                                                                                 A;Molecule type: protein
A;Residues: 1-115 cHER>
C;Superfamily: immunoglobulin V region; immunog
C;Keywords: hererotetramer; immunoglobulin
F;15-100/Domain: immunoglobulin homology <1MM>
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61 YYSDSVKGRFTISRDDSKSSVYLQMANLRVEDMGIYYCTGSYYG--MDYWGQGTSVTVS 117
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93; Conservative
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Matches 88; Conserv
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[1] heavy chain V region - mouse
[2] S18714
[2] heavy chain V region - mouse
[2] S28714
[3] Redecession: S38714
[4] Richmanis, A.V.
[5] Shill Sample S38714
[5] Shill Sample S38713
[6] Reference number: S38713
[7] A, Reference number: S38713
[7] A, Accession: S38714
[7] A, Accession: S38714
[7] A, Status: preliminary
[7] A, Status: preliminary
[7] Residues: 1-115 < CINA
[7] A, Cross-references: EMBL: X76014; NID: 9416092; PIDN: CAA53601.1; PID: 91334076
[7] Superfamily: immunoglobulin V region; immunoglobulin homology
[7] C, Superfamily: immunoglobulin homology cIMM>
[8] 14-99/Domain: immunoglobulin homology < IMM>
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                                                                                                                                                                                                                                                                                                         66 VKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
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74.8%; Pred. No. 1.5e-36;
ive 16; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13; Indels
                                                                                                                  10; Indels
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Pred. No. 1.2e-36;
8; Mismatches 13;
                                               Score 489; DB 1;
Pred. No. 9.3e-37;
5; Mismatches 10;
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                                                      Query Match
Best Local Similarity 83.3%;
Matches 95; Conservative
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Best Local Similarity 74.8%
Then 89; Conservative
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R.Reininger, L.; Shibata, T.; Ozaki, S.; Shirai, T.; Jaton, J.C.; Izui, S.
R.Reininger, L.; Shibata, T.; Ozaki, S.; Shirai, T.; Jaton, J.C.; Izui, S.
R.Reininger, L.; Shibata, T.; Ozaki, S.; Shirai, T.; Jaton, J.C.; Izui, S.
R.Title: Variable region sequences of pathogenic anti-mouse red blood cell autoantibodie A; Reference number: 809955; MUID:90269328; PMID:2347362
A; Recession: 809958
A; Residues: 1-121 «REI»
A; Residues: 1-121 «REI»
A; Residues: BMEL:X51846; NID:955246; PIDN:CAA36139.1; PID:9930214
C; Superfamily: immunoglobulin waglobulin homology
C; Keywords: heterotetramer; immunoglobulin homology <IMM>
Inverse.

If heavy chain V region (AMPCI) - mouse
C.Species: Mus musculus (house mouse)
C.Species: Mus musculus (house mouse)
C.Accession: A02073
R.Rudikoff, S.; Potter. M.
J. Immunol. 127, 191-194, 1981
A.Fitle: Immunoglobulin heavy chains from anti-inulin myeloma proteins: evidence for a nath constant and a mount and a mount and a mount a
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C;Species: Mus musculus (house mouse)
C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 23-Jul-1999
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73.9%; Pred, No. 4.5e-35;
tive 12; Mismatches 18
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78.8%; Pred. No. 5.4e-36;
tive 7; Mismatches 13.
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December 15, 2004, 17:01:54 ; Search time 132.164 Seconds (without alignments) 518.066 Million cell updates/sec
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636
1 EVKLBESGGGLVQPGGSMKL.......RNYYGSTYDYWGQGTTLIVS 119
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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                                                                    OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Perfect score:
Sequence:
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Minimum DB seg length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: UniProt_02:*
1: uniprot_trembl:*
2: uniprot_trembl:*
Pred. No. is the number of results predicted by chance to have a

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| Description | Q80217 mus musculu P0196 mus musculu P01802 mus musculu Q66p198 mus musculu P01799 mus musculu P01799 mus musculu P01799 mus musculu P01799 mus musculu P01805 rattus norv Q77mk4 mus musculu P01805 rattus norv Q77mk4 mus musculu P01805 mus musculu P01789 mus musculu P01787 mus musculu P01787 mus musculu P01787 mus musculu P01787 mus musculu Q66j34 homo sapien Aahl1037 homo sapien Aahl1037 homo sapien Bad00344 camelus d Bad00491 camelus d Bad00491 camelus d Bad00491 camelus d |
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                                               NCBI_TaxID=10090;
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                                     Gaps
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21-JUL-1986 (Rel. 01, Last sequence update)
21-JUL-2004 (Rel. 44, Last annotation update)
19 heavy chain v-III region J606.
Mus musculus (Mouse).
Extravota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Johnson N., Slankard J., Paul L., Hood L., "The complete V domain amino acid sequences of two myeloma inulin-
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            81.1%; Score 515.5; DB 2; Length 487; 79.5%; Pred. No. 3.2e-43; ive 9; Mismatches 13; Indels 3.
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115 115
115 AA; 12810 MW; B67AD6638A121ASF CRC64;
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SMART; SM0406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Immunoglobulin V region.
DOMAIN
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(Rel. 01, Last sequence update)
(Rel. 44, Last annotation update)
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By similarity.
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MEDLINE=82099361; PubMed=6798111;
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                                         97; Conservative
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HV27 MOUSE
ID - HV27 MOUSE
AC P01796;
DT 21-UU-1986 (
DT 21-UU-1986
DT 05-UU-2004 (
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P01801;
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SEQUENCE
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               Query Match
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SET THE SET OF S

HV32 MOUSE

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1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWMWWVRQSPEKGLEWVAEIRSKSINSAT 60
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-!- MISCELLANBOUS: This chain was isolated from a myeloma protein that binds inulin.
                                                                                                                                                                                                                                                                                                                                                                                                                       protein that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
                                                                                                                                                                                                                                         MEDLINE=78158406; PubMed=417344;
Vrana M., Rudikoff S., Potter M.;
"Sequence variation among heavy chains from inulin-binding myeloma
Ig heavy chain V-III region A4.
Was musculus (Mouse).
Eukaryota, metazoa, Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 113;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -!-SIMILARITY: Contains 1 immunoglobulin-like domain. PIR; D92811; AVMS82. HSSP, P01852; INFD. InterPro; IPR007110; Ig-like. InterPro; IPR007110; Ig-V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  113 113 AA; 12675 MW; 76658C121C598285 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pfam; PF00047; ig; 1. SRART; SRO046; ig; 1. SRART; SRO0406; igv; 1. Drocite; PS50835; ig LIKE; 1. Direct protein sequencing; Immunoglobulin V region. 1. 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 79.5%; Score 505.5; DB 1.81.4%; Pred. No. 6.2e-43; ive 8; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
heavy chain V-III region W3082.
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By similarity.
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By similarity.
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Best Loc Matches

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51246 MW; FDAC40A45B5E1443 CRC64;

464 AA;

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SEQUENCE
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X TISSUE-Mammary tumor metastatized to lung. Tumor arose spontaneously;

X Strausberg R.L., Felngold E.A., Grouse L.H., Derge J.G.,

X Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Haish F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Stapleton M., Scares M.B., Bonaldo M.F., Carainof E.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Raha S.S., Worley K.C., Hale S., Garcia A., Gunaratne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villaton D.K., Muzny D.M., Sodergen B.J., Lu X., Gibbs R.A.,

Rhey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,

"Generation and initial analysis of more than 15,000 full-length human
                                                                       ij
                                                                                                 1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWWNWVRQSPEKGLEWVAEIRSKSINSAT 60
                                                                                                                 EVKLEESGGGLVQPGGSMKLSCVASGFTFSNYWMYWVRQSPEKGLEWVAEIRLKSHNYAT 60
                                                                                                                                                        HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
                                                                                                                                                                        61 HYAESSVKGRFTISRDDSKSSVYLRMNNLRPEDTGIYYCT----TGFAYWGQGTLVTVS 114
                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=Czech II;
TISSUE=Mammary tumor metastatized to lung. Tumor arose spontaneously;
                                                                                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Musinae, Mus
                                                                      5;
                                          Length 115;
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Lubmitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; BC031470; AAH31470.1;
R InterPro; IPR003599; 1g.
R InterPro; IPR003596; 1g.
R Pfam; PP00764; 1g; 4.
R SMART; SM00407; 1g; 4.
R SMART; SM00407; 1g; 1.
R R SMART; SM00407; 1g; 1.
R R SMART; SM00407; 1g; 1.
R PROSITE; PS50835; 1G LIKE; 4.
                                                                      Indels
            12887 MW; 9B4517648C121C5A CRC64;
                                                                                                                                                                                                                                                                                       Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and mouse cDNA sequences.";
Proc. Natl: Acad. Sci. U.S.A. 99:16899-16903(2002);
                                          DB 1;
                                       79.3%; Score 504.5; DB 80.7%; Pred. No. 8e-43; ive 9; Mismatches
                                                                                                                                                                                                                                                                                    05-JUL-2004 (TrEMBLrel. 27,
05-JUL-2004 (TrEMBLrel. 27,
05-JUL-2004 (TrEMBLrel. 27,
Hypothetical protein.
Mus musculus (Mouse).
                                                                      96; Conservative
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115 AA;
                                                      Similarity
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SEQUENCE FROM N.A.
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NON TER
SEQUENCE
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                                         Query Match
                                                          Local
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Matches
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Q6P1P8
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SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

STRAIN=Czech II; TISSUE=Mammary tumor;

WEDLINE=238825; PubMed=1247932;

MEDLINE=238825; PubMed=1247932;

AL Straubberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Rausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Itschul S.F., Zeeberg B. Buerow K.H., Schaefer C.F., Bhat N.K.,

Hopkins R.F., Ozordan H., Moore T., Max S.I., Wang J., Heiseh F.,

B piatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

B piatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Brownstein M.J., McKernan R.J., Malek J.A., Gunaratne P.H.,

Rack S.A., McEwan P.J., McKernan R.J., Lu X., Gibbs R.A.,

Richards S., Worley K.C., Hale S., Garcia A.M. Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.W., Sodergren E.J., Lu X., Gibbs R.A.,

Richards S., Worley W.C., Shevchenko Y., Boulfard G.G.,

Rackiguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Rackiguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Rackiguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Rackiguez A.C., Grimwood J., Schmutz J., Myers R.M., Schein J.E.,

"Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                      79
                                                                                                                                                                                                                                                                                         61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTVS 119
                                                                                                                                                                                                                                                                                                                                80 HYAESVKGRFTISRDDSKSRLYLQMSSLRAEDTGIYYCT-----NAMDYWGQGTSVTVS 133
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                                                                                           Gaps
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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
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                        DB 2; Length 464;
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                                                                                       Indels
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Strausberg R.;
Submitted (UUN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; BC031470; AAH1470.1; -.
Hypothetical protein.
SEQUENCE 464 AA; 51246 MW; FDAC40A45B5E1443 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
Score 503.5; DB 2;
Pred. No. 4.9e-42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10;
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79.8%; Pred. No. 4.9e-42;
ive 9; Mismatches 10
                                                                                       9; Mismatches
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AAH31470;
02-MAR-2004 (TrEMBLrel, 27, Cr
02-MAR-2004 (TrEMBLrel, 27, Le
02-MAR-2004 (TrEMBLrel, 27, Le
Hypothetical protein.
Mus musculus (Mouse).
                     Query Match
Best Local Similarity 79.2%;
Matches 95; Conservative
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Best Local Similarity 79.8°
Matches 95; Conservative
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SEQUENCE FROM N.A.
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RESULT 10
HV29_MOUSE
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Proc. Natl. Acad. Sci. U.S.A. 75:1957-1961(1978).
-! Natl. Acad. Sci. U.S.A. 75:1957-1961(1978).
-! MISCELLANEOUS: This chain was isolated from a myeloma protein that binds inulin.
-!- SIMILARITY: Contains 1 immunoglobulin-like domain.
-!- SIMILARITY: This is immunoglobulin-like domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Place of the control 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=77134726; PubMed=402936;
Vrana M., Rudikoff S., Potter M.;
"Heavy-chain variable-region sequence from an inulin-binding myeloma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=78158406; PubMed=417344;
Vrana M., Rudikoff S., Potter M.;
"Sequence variation among heavy chains from inulin-binding myeloma
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last amoutation update)
1g heavy chain V-III region U61.
Ig heavy chain W-III region C61.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12675 MW; 76658C16C779845E CRC64;
                                                                                                                                                                                                           21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
pleavy chain V-III region ABE-47N.
Mus musculus (Mouse)
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By similarity.
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113 AA;
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                                                                                                        HV30 MOUSE
P01799;
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P01797;
RESULT 7

H730 MOUSE

D7 21-JUL

D8 IQ beary

C0 Eukary

C0 Mammal

C0 Mammal

C0 Mammal

C1 Eukary

RX Mammal

C0 Mammal

C1 Eukary

RX Mammal

C0 H18 IN

C1 INERP

C0 INERP

C1 INERP

C1 INERP

C2 INERP

C3 INERP

C4 INERP

C6 INERP

C7 INERP

C7 INERP

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                                                                                                                                                                                                                                                                                                         61 HYAESVKGRFTISRDDSKSAVYLQMTDLRTEDTGVYYCSRNYYGSTYDYWGQGTTLTV 118
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01-OCT-1993 (Rel. 27, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig heavy chain V-III region T957.

Buka musculus (Mouse).

Eukaryota, Metazoa, Coraniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
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                                                                                                                                                                     78.5%; Score 499.5; DB 1; Length 113; 80.5%; Pred. No. 2.5e-42; ive 8; Mismatches 10; Indels 5.
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                                                                                                                                         12671 MW; 76634C121C598285 CRC64;
InterPro; IPR003596; Ig_v.
Pfam; PF00047; ig; 1.
SMART; SM0406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Immunoglobulin V region.
DOMAIN
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By similarity.
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By similarity.
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                                                                                                                                                                                                            Conservative
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                                                                                                                                                         Query Match
Best Local Similarity
Best Local 95; Conserve
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22
113
113 AA;
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P01800;
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Best Local 1
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5 65 59

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RY PUDLINE=81216632; PubMed=6787122;
RA RUDIANE=81216632; PubMed=6787122;
RA Rudikoff S., Potter M.;
Rudikoff S., Potter M.;
Immunoglobulin heavy chains from anti-inulin myeloma proteins:
RT evidence for a new heavy chain joining segment.";
L. Immunol. 127.191-194(1981).
C. I- MISCELIANEOÚS: This chain was isolated from a myeloma protein that binds inulin.
C. I- SIMILARITY: Contains 1 immunoglobulin-like domain.
DR FIRSP: Po173; HVMSAM.
DR PRESP: Po173; HVMSAM.
DR FIRSP: Po173; HVMSAM.
DR FIRSP: Po1743; LIGC.
DR RISSP: Po1744; L
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Mus musculus (Mouse).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodencia, Sciurognathi, Muridae, Murinae, Mus.
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                                                                                                                                                                                                                                                                                                                                           Length 111;
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113 AA; 12691 MW; 7A6D906AAA966E9E CRC64;
                                                                                                                                                                                                                                                                   12304 MW; 0EDE98EC7348056A CRC64;
                                                                                                                                                                                                                                                                                                                                       ch 76.9%; Score 489; DB 1; Similarity 83.3%; Pred. No. 2.8e-41; 95; Conservative 5; Mismatches 10
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21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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Pfam; PP00047; ig; 1.
SMRRT; SW00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Immunoglobulin V region.
DOWAIN <1 11
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HV01_RAT
ID HV01_RAT
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A Bernard C., Gough N.M.;

L. Detween translocated VH and muc constant regions genes.";

Proc. Natl. Acad. Sci. U.S.A. 77:3630-3634 (1380).

- I- MISCELLANEOUS: The sequence of the first 197 residues of the C region was also determined and differs in only 3 positions from the corresponding portion of the mouse WOPC 104e mu chain.

C. I- SIMILARITY: Contains 1 immunoglobulin-like domain.

R. HSSP; PO1692; IMRD.

R. HSSP; PO1692; IMRD.

R. InterPro; IPR007110; Ig-like.

R. InterPro; IPR007110; Ig-like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Proce. Natl. Acad. Sci. U.S.A. 75:1957-1961(1978).

-!- MISCELLANEOUS: This chain was isolated from a myeloma protein that binds inulin.

-!- SIMILARITY.
-!- 
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                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE.
MEDLINE=78158406; PubMed=417344;
Vrana M., Rudikoff S., Potter M.;
"Sequence variation among heavy chains from inulin-binding myeloma
                                                                                                                                                                                                                       Mus musculus (Mouse)
Vakaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
NCBI_TaxID=10090;
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'n
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             113 AA; 12647 MW; EE50F2F20EDB129B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 77.9%; Score 495.5; DB 1;
78.8%; Pred. No. 6.3e-42;
iive 11; Mismatches 9;
                                                                   21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
25-JUL-2004 (Rel. 44, Last annotation update)
19 heavy chain V-III region B109.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
19 heavy chain V-III region HPC76 (Fragment).
Mus musculus (Mouse)
       113 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ig-like.
By similarity.
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nes 93; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
STANDARD;
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HV29 MOUSE
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Best Loca Matches

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HV35 MOU P01804;

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Similarity
82; Conserva
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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BAD00413
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 HYAESVKGRPTISRDDSKSAVYLQMIDLRTEDIGVYYCSRNYYG---STYDYWGQGITLT 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20 EVKLEESGGGLVQPGMSVKLSCATSGFTFSDYMMEWVRQAPGKGLEWVAEIRNKANNYVA 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 EVKLEESGGGLVQPGGSMKLSCVASGFIFSNHWNNWVRQSPEKGLEWVAEIRSKSINSAT
                                                                 Rattus norvegicus (Rat).
Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Rattus.
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE-Mammary tumor. WAP-TGF alpha model. 7 months old;
TISSUE-Mammary tumor. WAP-TGF alpha model. 7 months old;
MDDLINE-Z388257; PubMed=12477932;
MDDLINE-Z388257; PubMed=12477932;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max, S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.
                                                                                                                                            MEDLINE-83064537; PubMed-6292865;
Hellman L., Pettersson U., Engstroem A., Karlsson T., Bennich H.;
"Structure and evolution of the heavy chain from rat immunoglobulin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QTTMK4;
01-OCT-2003 (TERMELRE]. 25, Careated)
01-OCT-2003 (TERMELRE]. 26, Last sequence update)
01-MAR-2004 (TERMELRE]. 26, Last annotation update)
Hypothetical protein.
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Musinse; Mus
                                                                                                                                                                                             Nucleic Acids Res. 10:6041-6049(1982).

-!- MISCELLANEOUS: The mRNA was isolated from an IgE-secreting immunocytoma that arises spontaneously in LOU/C/WsL rats.
-!- SIMILARITY: Contains 1 immunoglobulin-like domain.
PIR; A02075; EVRTR2.
INCRP. 107789; IMCP.
INTERPRO; IPR007110; Ig-like.
InterPro; IPR007110; Ig-like.
PFAMT; SM00406; Ig-v.
PFAMT; SM00406; Ig-v.
PROSTTE; PSS0835; Ig_LKE; 1...
Immunoglobulin V region; Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                3,
                                                                                                                                                                                                                                                                                                                                                                                                                                  71.5%; Score 454.5; DB 1; Length 142; 68.9%; Pred. No. 1.1e-37; ive 17; Mismatches 18; Indels 3;
                                                                                                                                                                                                                                                                                                                                                                        Ig heavy chain V region IR2. Ig-like.
                                                                                                                                                                                                                                                                                                                                                                                                            142 AA; 16024 MW; DE29E6CFE745DF3B CRC64;
            21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
11-OCT-2003 (Rel. 42, Last annotation update)
Ig heavy chain V region IR2 precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            479 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
hes 84; Conserv
                                                                                                                               SEQUENCE FROM N.A.
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SEQUENCE
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Matches
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Q7TMK4
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Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Rahelton D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Rahelton B.K., Maray D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Rahelton R.W., Touchman J.W., Green E.D., Dickson M.C.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
Rrzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
Jones S.J., Marra M.A.,
T. "Generation and initial analysis of more than 15,000 full-length human
RT and mouse CDNA sequences.",
L. Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 EVKLBESGGGLVQPGGSMKLSCVASGFIFSNHWMWVRQSPEKGLEWVAEIRSKSINSAT 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  79
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      80 YYSDSVKGRFTISRDDSKSGVYLQMNNLRPEDMGIYYCT----VEGMDYWGRGISVTVS 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20 EVKLDETGGGLVQPGRPMKLSCVASGFTFGDYWANWRQSPEKGLEWVSQIRNKPYNYET
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Eukaryota, Mecazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Eutheria, Cetartiodactyla, Tylopoda, Camelidae, Camelus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Spleen; Honda T., Akahori Y., Kurosawa Y.; Honda T., Akahori Y., Kurosawa Y.; Libraries of heavy-chain antibodies reflecting camel gamma2 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 121;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     69.7%; Score 443; DB 2; Length 47
68.9%; Pred. No. 6.1e-36;
ive 16; Mismatches 17; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases. EMBL; BC055905; AAH55905.1; -. InterPro; IPR007110; 19-1ike. InterPro; IPR003597; 19-c1. InterPro; IPR003597; 19-c1. InterPro; IPR003596; 19 MHC. InterPro; IPR003596; 19 MHC. PRO# IPR003596; 19 MHC. PRO# IPR003596; 19 WHC. Pfam; PF07654; C1-8et; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=mix FVB/N;
IISSUE=Mammary tumor. WAP-IGF alpha model. 7 months old;
Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gamma3 in vivo repertoires.";
Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AB092051; BAD00413.1; -;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF07654; C1-8et; 2.
Pfam; PF00454; 195: 1.
PRABT; SMO0405; 199: 1.
PROSITE; PS50815; IG_LIKE; 4.
PROSITE; PS08209; IG_MHC; UNKNOWN_2.
HYPOCHELICAI protein.
SEQUENCE 479 AA; 52209 MW; 532DED9D46D0AEED CRC64;
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121 AA; 12867 MW; 34F0EB03C2404119 CRC64;
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02-MAR-2004 (TrEMBLrel. 27, Created)
02-MAR-2004 (TrEMBLrel. 27, Last sequence update)
02-MAR-2004 (TrEMBLrel. 27, Last annotation update)
Immunoglobulin heavy chain VHDJ region (Fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           66.2%; Score 421; DB 2;
65.5%; Pred. No. 2.1e-34;
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us-09-897-724-5.rup
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2; Gaps 1;
        Matches 78; Conservative 17; Mismatches 22; Indels
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